

**TENDER FOR SETTING UP OF NEONATAL INTENSIVE CARE
UNIT TO ALL INDIA INSTITUTE OF MEDICAL SCIENCES,
RAIPUR ON TURNKEY BASIS**

IFB NO: HLL/CHO-CMO/CG-AIIMS/NICU/2018-19, Dt. 22.03.2019



HLL LIFECARE LIMITED

(A Govt. of India Enterprise)

**AKKULAM FACTORY, SREEKARIAM P.O.
THIRUVANANTHAPURAM – 17
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CIN: U25193KL1966GOI002621

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SECTION - I
NOTICE INVITING TENDERS

HLL Lifecare Limited hereby invites sealed bids under Two-Bid system from eligible suppliers/manufacturers/Consortium partners for rate contract for setting up of Neonatal Intensive Care Unit (NICU) on turnkey basis to All India Institute of Medical Sciences, Raipur, Chattisgarh.

Tender Documents will be issued at Projects Division, HLL Lifecare Limited (A Government of India Enterprise) Corporate Head Office, Poojappura.P.O, Thiruvananthapuram – 695012, from **22.03.2019 to 22.04.2019** on all working days between 11.00 AM and 4.00 PM, on payment of non-refundable fee of Tender cost of respective equipment (s). The tender may also be downloaded from our web site www.lifecarehll.com and the tender cost shall be submitted along with the tender in the form of Demand Draft taken in favour of HLL Lifecare Limited payable at Thiruvananthapuram. Failing to submit the tender document fee, the bid is liable to be rejected. SSI/MSME units interested in availing exemption from payment of Tender Fee & EMD should submit a valid copy of their registration certificate issued by the concerned DIC or NSIC. SSI/MSME units are not exempted from the Security Deposit, if the tender is awarded.

Last date and time of receipt of Tender : - 23.04.2019 at 14.00 PM.
Date and time of opening of Tender : - 23.04.2019 at 15.00 PM.

General Manager (Materials)

SCHEDULE FOR SUBMISSION OF APPLICATION

EVENT	DATE
Starting date of sale of documents	22.03.2019
Last date of sale of documents	22.03.2019
Last date and time for submission of completed Tender	23.04.2019at 14.00 PM
Date and time for Opening of Technical Bid	23.04.2019at 15.00 PM

The completed Tender should be submitted before the due date and time of submission at the following address.

GENERAL MANAGER (MATERIALS),
HLL LIFECARE LTD
AKKULAM FACTORY, SREEKARIAM P.O.
THIRUVANANTHAPURAM – 17, KERALA, INDIA
Phone +91 471 244 5930, Fax +91 471 244 5935
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SECTION – II
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 the organization purchasing goods and services as incorporated in the Tender Enquiry document.
- (ii) “Tender” means Bids / Quotation / Tender received from a Firm / Tenderer /Bidder/Consortium.
- (iii) “Tenderer” means Bidder/ the Individual or Firm or Consortium 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, furniture, fixtures, raw material, spares, instruments, machinery, equipment, medical equipment, 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 to whom the goods are required to be delivered as specified in the Contract.
- (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) “T E 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) “SSI” means Small Scale Industry
- (xii) “LC” means Letter of Credit
- (xiii) “DP” means Delivery Period
- (xiv) “BG” means Bank Guarantee
- (xv) “GST” Goods and Service Tax
- (xvi) “RR” means Railway Receipt
- (xvii) “BL” means Bill of Lading
- (xviii) “FOB” means Free on Board
- (xix) “FCA” means Free Carrier
- (xx) “FOR” means Free On Rail
- (xxi) “CIF” means Cost, Insurance and Freight
- (xxii) “CIP (Destinations)” means Carriage and Insurance Paid up to named port of destination. Additionally the Insurance, local transportation and storage shall be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery
- (xxiii) “DDP” means Delivery Duty Paid at named place of destination (consignee site)
- (xxiv) “INCOTERMS” means International Commercial Terms as on the date of Tender Opening
- (xxv) “RT” means Re-Tender
- (xxvi) “CAMC” Comprehensive Annual Maintenance Contract

2. Introduction

- 2.1 The Purchaser has issued these TE documents for purchase of goods and related services as mentioned in Section – V and VI – “List of Requirements” and “Technical Specifications”.
- 2.2 This section (Section II - “General Instruction 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 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

Deleted.

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/Hindi 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

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

6. Eligible Goods and Services

6.1 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 manufactured or from where the related services are arranged and supplied.

7. Tendering Expense

7.1 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 DOCUMENTS

8. Content of Tender Documents

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

- Section II – General Instructions to Tenderers (GIT)
- Section III – General Conditions of Contract (GCC)
- Section IV – Special Conditions of Contract (SCC)
- Section V – List of Requirements
- Section VI – Technical Specifications
- Section VII – Quality Control Requirements
- Section VIII – Qualification Criteria
- Section IX – Tender Form for Technical Bid
- Section IX B – Tender Form for Price Bid
- Section X – Price Schedules
- Section XI – Bank Guarantee Form for EMD
- Section XII – Bank Guarantee Form for Performance Security/CAMC Security
- Section XIII – Manufacturer’s/Distributor’s Authorisation Form
- Section XIV – Contract Form ‘A’
- Section XV – Contract Form ‘B’
- Section XVI – Proforma of Consignee Receipt Certificate

- Section XVII – Proforma of Final Acceptance Certificate by the consignee
- Section XVIII – Consignee List
- Section XIX - Check 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 Tender 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 Purchaser’s Website www.lifecarehll.com and also in writing by registered/speed post or by e-mail, to all prospective tenderers, which have received the TE documents and will be binding on them.
- 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 Tender 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. The purchaser will respond in writing to such request provided the same is received by the purchaser not later than 5 days prior to the prescribed date of submission of tender.

C. PREPARATION OF TENDERS

11. Documents Comprising the Tender

11.1 The **Two bid System**, i.e. “Techno–Commercial Tender” and “Price Tender” prepared by the tenderer shall comprise the following:

A) Techno–Commercial Tender (Un priced Tender)

- i) Earnest money furnished in accordance with GIT clause 19.1
- ii) Tender Form as per Section IX (**Un priced**).
- iii) Documentary evidence, as necessary in terms of clauses GIT Clause 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/ Distributor’s Authorisation Form/Consortium as per the format in Section XIII.
- v) Power of Attorney in favour of signatory of TE documents and signatory of Manufacturer’s/Distributor’s Authorisation Form.
- 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 XVII along with relevant copies of orders and end users' satisfaction certificate.
- viii) Price Schedule(s) as per Section X filled up with all the details including Make, Model etc. of the goods offered with prices blank (**without indicating any prices**).
- ix) Certificate of Incorporation in the country of origin.
- x) Checklist as per Section XIX.
- xi) Technical Compliance Statement (specification points-wise) along with pamphlets/Catalogue.

B) Price Tender:

The information given at clause no. 11.1 A) ii) & viii) above should be reproduced with the prices indicated.

N.B.

All pages of the Tender should be page numbered and indexed.
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 The authorized signatory of the tenderer must sign the tender duly stamped at appropriate places and initial all the remaining pages of the tender.
- 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 shall quote only in Indian Rupees.
Tenders, where prices are quoted in any other currency shall be treated as non-responsive and rejected.

13 Tender Prices

- 13.1 The Tenderer shall indicate on the Price Schedule provided under Section X all the specified components of prices shown therein including the unit prices and total tender prices of the goods and services. All the columns shown in the price schedule should be filled up as required. If any column doesn't apply to a tender, same should be clarified as "NA" by the tenderer.
- 13.2 Deleted.
- 13.3 While filling up the columns of the Price Schedule, the following aspects should be noted for compliance:
 - a) GST which will be payable on the goods shall be indicated in the SECTION X (a). in absence of GST, it will be treated as inclusive.
 - b) 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, Positioning and other local costs incidental to delivery of the goods to their final destination as specified in Price Schedule;

- c) The price of Incidental Services, as mentioned in Section V & VI, Price Schedule and GCC shall be considered;
- d) The price of CAMC including all taxes and duties, as mentioned in GCC, SCC, List of Equipments, Technical Specification and Price Schedule shall be considered.

13.4 Additional information and instruction on GST:

13.4.1 The price will be taken inclusive of GST and no claim for the same will be entertained later.

- 13.5 For transportation of imported goods offered from abroad, relevant instructions as incorporated under GCC Clause 10 shall be followed.
- 13.6 For insurance of goods to be supplied, relevant instructions as provided under GCC Clause 11 shall be followed.
- 13.7 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 no way 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, the tenderer should have engaged an agent in India in connection with its tender and shall furnish the following information:
 - a) The complete name, address, contact person and contact number of the Indian Agent(s)/service centres 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 CAMC period.

15. Firm Price

- 15.1 Unless otherwise specified, 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.

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/Distributor's authorization letter /consortium 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 VIII 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 payment of duties, taxes, levies, clearance of goods, freight, transport, insurance 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.
- d) The tenderer shall quote for all items in the list of requirements, if any of the item not quoted then their bid will be treated as non responsive.
- e) The items quoted shall be responsive to the requirements in the List of Equipments in the Tender.

18. Documents establishing Good's Conformity to Tender 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 Tender 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 Tender 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

Sl No	Description	Tender Fee In Rs.	EMD amount in Rs.
1	Setting up of NICU on Turnkey basis	5,000.00	7,00,000.00

Earnest Money shall be in the form of a Demand Draft from a nationalised bank issued in favour of HLL Lifecare Limited, Thiruvananthapuram, or in the form of an irrevocable Bank guarantee of any Nationalised Bank, which should be placed in a separate sealed cover marked "Earnest Money" and shall be submitted along with the tenders.

- 19.2 The earnest money shall be in Indian Rupees.
- 19.3 The earnest money in the form of BG 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.
- 19.4 Unsuccessful tenderers' earnest money will be returned to them without any interest, 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.
- 19.5 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.

20. Tender Validity

- 20.1 If not mentioned otherwise, the tenders shall remain valid for acceptance for a period of 120 days after the date of tender opening prescribed in the Tender 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 e-mail or 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.
- 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 The original of the 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. The letter of authorization shall be by a written and notarised power of attorney executed on non judicial stamp paper of Rs.300/-, which shall also be furnished along with the tender.
- 21.3 All the copies of the tender shall be duly signed at the appropriate places as indicated in the Tender 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.

- 21.4 The tenderer is to seal the tender in envelopes, and write the address of the purchaser and the tender reference number on the envelopes. The sentence “NOT TO BE OPENED” before 23.04.2019, 15.00 Hrs (The tenderer is to put the date & time of tender opening) are to be written on these envelopes. The inner envelopes are then to be put in a bigger outer envelope, which will also be duly sealed, marked etc. as above. If the outer envelope is not sealed and marked properly as above, the purchaser will not assume any responsibility for its misplacement, premature opening, late opening etc.
- 21.5 Tender document seeks quotation following **Two Bid System**, in two parts. First part will be known as **‘Techno - Commercial Tender’**, and the second part **‘Price Tender’** as specified in clause 11 of GIT. Tenderer shall seal **‘Techno - Commercial Tender’** and **‘Price Tender’** separately and covers will be suitably super scribed. Both these sealed covers shall be put in a bigger cover and sealed.

D. SUBMISSION OF TENDERS

22. Submission of Tenders

- 22.1 Tenders shall be submitted to HLL Lifecare Ltd., by hand or through registered post or courier service at the address given below and not later than 14.00 Hrs on 23.04.2019. In respect of Applications received by post or courier, HLL shall not assume any responsibility for any delayed delivery. Documents submitted in connection with this tender will be treated confidential.

The Tenders should be addressed to:

**General Manager (Materials),
HLL Lifecare Limited (A Govt. of India Enterprise)
Akkulam Factory, Sreekariam P.O.
Thiruvananthapuram – 17
Kerala, India.**

- 22.3 Purchaser may at its discretion, extend the deadline for the submission of Tender, in which case all rights and obligations of Purchaser and the Tenderer subject to the previous deadline shall thereafter be subject to the deadline as extended.

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 withdraw/alter/modify its tender so long as such withdrawal/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 tenders will be opened at the specified date and time and at the specified place as indicated in the Schedule for submission of tenders.

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.
- 25.3 Two -Bid Tender system as mentioned in para 21.5 above will be as follows. 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 evaluation, the tender opening official(s) will assess 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 evaluation committee. 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. The price bid of bidders who do not qualify based on the evaluation of technical bids shall be returned unopened.

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 Tender 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. For evaluating the Techno commercial bid, the purchaser may at its discretion call for demonstration/ presentation/ samples etc.

27. Responsiveness

- 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 Prior to the detailed evaluation of Price Tenders, the Purchaser will determine the substantial responsiveness of each Tender to the Tender Document. For purposes of these clauses, a substantially responsive Tender is one, which conforms to all the terms and conditions of the Tender Documents without material deviations. Deviations from, or objections or reservations to critical provisions such as those concerning Performance Security (GCC Clause 5), Warranty (GCC Clause 15), EMD (GIT Clause 19), Taxes & Duties (GCC Clause 20), Force Majeure (GCC Clause 26) and Applicable law (GCC Clause 31) will be deemed to be a material deviation. 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 If a Tender is not substantially responsive, it will be rejected by the Purchaser and cannot subsequently be made responsive by the Tenderer by correction of the nonconformity.
- 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 Tender document. The tenders, which do not meet the basic requirements, are liable to be treated as non – responsive and will be summarily ignored.
- 27.5 The following are some of the important aspects, for which a tender shall be declared non – responsive and will be summarily ignored;
- (i) Tender form as per Section IX (signed and stamped) not enclosed
 - (ii) Tender is unsigned.
 - (iii) Tender validity is shorter than the required period.
 - (iv) Required EMD (Amount, validity etc.) have not been provided.
 - (v) Tenderer has quoted for goods manufactured by other manufacturer's/ Distributor's without the required Manufacturer's/ Distributor's Authorisation Form/consortium as per Section XIII.
 - (vi) Tenderer has not agreed to give the required performance security.
 - (vii) Goods offered are not meeting the tender enquiry specification and in demonstration.
 - (viii) 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.
 - (ix) Poor/ unsatisfactory past performance.
 - (x) Tenderers who stand deregistered/banned/blacklisted by any Govt. Authorities.
 - (xi) Tenderer is not eligible as per GIT Clauses 5.1 & 17.1 and Section VIII
 - (xii) Submission of false information in the Tender.
 - (xiii) Erasure or over-writing in the tender is without initialled by the person(s) signing the tender as per GIT clause 21.

28. Minor Infirmary/Irregularity/Non-Conformity

- 28.1 If during the preliminary examination, the purchaser finds any minor infirmity and/or irregularity and/or non-conformity in a tender, the purchaser may waive the same provided it does not constitute any material deviation and financial impact and, also, does not prejudice or affect the ranking order of the tenderers. Wherever necessary, the purchaser will convey its observation on such 'minor' issues to the tenderer by

registered/speed post/Courier 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/Courier. If the tenderer does not agree to the observation of the purchaser, the tender is liable to be ignored.

30. Qualification Criteria

- 30.1 Tenders of the tenderers, who do not meet the required Qualification Criteria prescribed in Section VIII, will be treated as non - responsive and will not be considered further.

31. Tender currency (Indian Rupee)

- 31.1 The TE document permits the tenderers to quote their prices in Indian Rupees only.

32. Items Evaluation

The List of Requirements contains more than one item. The responsive tenders will be evaluated and compared only on package cost as a turnkey tender. However the quotes shall be with item-wise unit cost and total cost with applicable taxes/duties for each and every equipment in the List of Requirements separately.

33. Comparison of Tenders

The comparison of the responsive tenders shall be carried out on Free Delivery at consignee site basis. The price ranking will be carried out as under.

Total price = Price with all accessories as per technical specification in the format given in Section – X (A)

The tenderers shall also quote for CAMC price for 5 years as per Section – X (B) separately. Failing which the bid is liable to be rejected.

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

- 34.1 Further to GIT Clause 34 above, the purchaser's evaluation of a tender will include and take into account the following:

In the case of goods manufactured in India or goods of foreign origin already located in India, GST & other similar applicable additional charges etc which will be contractually payable by the tenderer.

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

35. Tenderer's capability to perform the contract

35.1 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.

35.2 The above-mentioned determination will, inter alia, take into account the tenderer's financial, technical and production/execution 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.

36. Contacting the Purchaser

36.1 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.

36.2 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

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

37.1 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.

38. Award Criteria

The contract will be awarded to the lowest evaluated responsive tenderer decided by the purchaser as per clause 33 to 36 of GIT.

Only those bidders who qualify at the techno- commercial stage will be eligible for opening of price bids.

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

39.1 At the time of awarding the contract, the purchaser reserves the right to increase or decrease the quantity of goods and services mentioned in the schedule (s) in the "List of Requirements" without any change in the unit price and other terms & conditions quoted by the tenderer.

39.2 If the quantity has not been increased at the time of the awarding the contract, the purchaser reserves the right to increase the quantity of goods and services mentioned in the contract without any change in the unit price and other terms & conditions mentioned in the contract, during the currency of the contract period.

40. Notification of Award

40.1 Before expiry of the tender validity period, the purchaser will notify the successful tenderer(s) in writing, by registered / speed post or by email 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 the notification of award, 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 III

41. Issue of Contract

41.1 Promptly after notification of award, the Purchaser will mail the Contract Form (as per Section XIV and XV) duly completed and signed, in duplicate, to the successful tenderer by registered / speed post.

41.2 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 by registered / speed post.

42. Non-receipt of Performance Security and Contract by the Purchaser

42.1 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 against it as per the clause 24 of GCC – Termination of default.

43. Return of EMD

43.1 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 19.4 and 19.5.

44. Corrupt or Fraudulent Practices

44.1 It is required by all concerned namely the Consignee/ Tenderers/ Suppliers/ Consortium etc to observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Purchaser: -
defines, for the purposes of this provision, the terms set forth below as follows:
“corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and

“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;

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;

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
GENERAL CONDITIONS OF CONTRACT (GCC)
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SECTION - III

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 IV, List of requirements under Section V and Technical Specification under Section VI of this document.

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, trade marks 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, manufactured, or from where the services are arranged.
The country of origin may be specified in the Price Schedule.

5. Performance Security

- 5.1 Within thirty (30) days from date of the issue of notification of award by the Purchaser, the supplier, shall furnish Performance Security to the Purchaser for an amount equal to five percent (5%) of the total value of the contract, valid up to 60 days after the date of completion of 5 years warranty period / all contractual obligations by the supplier, including the warranty obligations, initially valid for a total period of minimum 62 months from the date of Notification of Award.
- 5.2 The Performance security shall be denominated in Indian Rupees.
- a) It shall be in any one of the forms namely Account Payee Demand Draft drawn from any Nationalised bank in India or Bank Guarantee issued by a Nationalised bank in India, in the prescribed form as provided in section XII of this document in favour of the Purchaser. The validity of Bank Guarantee will be for a period up to sixty (60) days beyond respective Warranty Period.
- 5.3 In the event of any failure /default of the supplier with or without any quantifiable loss to the Purchaser the amount of the performance security is liable to be forfeited. The Purchaser may do the needful to cover any failure/default of the supplier with or without any quantifiable loss to the Purchaser.
- 5.4 In the event of any amendment issued to the contract, the supplier shall, within twenty-one (21) 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 CAMC as per the ‘Contract Form – B’ in Section XV with Purchaser/Purchaser’s Client, 3 (three) months prior to the completion of Warranty Period. The CAMC will commence from the date of expiry of the Warranty Period.
- 5.6 Subject to GCC sub – clause 5.3 above, the Purchaser will release the Performance Security without any interest to the supplier on completion of the supplier’s warranty and contractual obligations including submission of satisfactory performance certificates received from Hospital authorities towards quarterly preventive maintenance and breakdown maintenance services rendered by the contractor during warranty period.

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 VI and VII 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 VI and VII and in SCC under Section IV. 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 VI and VII and in SCC under Section IV, 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 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 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.
- 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 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.
If required by the purchaser, Foreign supplier shall also have the equipment inspected by recognised/ reputed agency like SGS, Lloyd or equivalent (acceptable to the purchaser) prior to despatch at the supplier's cost and furnish necessary certificate from the said agency in support of their claim.
For details of final inspection please refer section IV, special conditions of Contract.

9.0 Terms of Delivery

Goods shall be delivered by the supplier in accordance with the terms of delivery as follows:

- a) The goods shall be supplied, unpacked, installed and commissioned at the designated location as per the SECTION V. The project has to be completed within 60 days from date of order. All costs including insurance, loading, unloading etc., shall be borne by the supplier.

10. Transportation of Goods

The supplier shall at their own experience, arrange transport (including air/sea/land), loading & unloading of goods upto the consignee address.

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:

In case of supply of domestic goods on Consignee site basis, the supplier shall be responsible till the entire goods contracted for arrival in good condition at destination. The transit risk in this respect shall be covered by the Supplier by getting the goods duly insured. The insurance cover shall be obtained by the Supplier and should be valid till installation, testing and commissioning of the equipments.

If the equipments are not commissioned and handed over to the consignee within stipulated period, the insurance will 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 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 before such discontinuation to provide adequate time to the purchaser to purchase the required spare parts, etc. at the supplier's risk and cost ., and
 - ii) Immediately following such discontinuation, providing the Purchaser, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the Purchaser.
- 12.2 Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the goods so that the same are supplied to the Purchaser promptly on receipt of order from the Purchaser.

13. Incidental services

- 13.1 Subject to the stipulation, if any, in the SCC (Section – IV), List of equipments (Section – V) and the Technical Specification (Section – VI), the supplier shall be required to perform the following services.
- i) Installation & Commissioning, Supervision and Demonstration of the goods and rectification of accidental damages occurred before handing over the system/site to Hospital authorities.
 - ii) Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
 - iii) Training to Doctors/Technicians on equipments in clinical aspects for operating and maintaining the equipments.
 - iv) Supplying required number of operation & maintenance manual for the goods.
 - v) Providing all the necessary as built drawings after the installation and commissioning.
 - ix) Provide all software updates during warranty period without any additional cost.

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 to enable the Purchaser 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 (or as instructed in the contract):

Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;

Consignee Receipt Certificate as per Section XVI in original issued by the authorized representative of the consignee;

Two copies of packing list identifying contents of each package;

Inspection certificate issued by the nominated Inspection agency, if any.

Certificate of origin;

Insurance Certificate as per GCC Clause 11

Manufacturers/Supplier's warranty certificate & In-house inspection certificate.

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 (except when the design adopted and / or the material used are as per the Purchaser's/Consignee's specifications) 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 This warranty shall remain valid for 5 years/ 1 year as per SECTION V (LIST OF REQUIREMENTS) from the date of handing over entire equipment and acceptance by the Purchaser/Hospital in terms of the contract after installation and commissioning, unless specified otherwise in the SCC.
- 15.3 In case of any claim arising out of this warranty, the Purchaser shall promptly notify the same in writing to the supplier. The period of the warranty will be as per GCC 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 form on 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 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 consignee's site at least once in 4 months commencing from the date of the installation for preventive maintenance of the goods.
- 15.8 The Purchaser reserve the rights to enter into CAMC between Purchaser/Purchaser's Client and the Supplier for the period of 5 years as mentioned in this tender, after the completion of 5 year warranty.
- 15.9 The supplier along with its Indian Agent and the CAMC provider shall ensure continued supply of the spare parts for the constant performance of 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 CAMC Provider shall always accord most favoured client status to the Purchaser vis-à-vis its other Clients/Purchasers of its equipment/machines/goods etc. and shall always give the most competitive price for its machines/equipment supplied to the Purchaser.

16. Assignment

- 16.1 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 shall be amended accordingly.

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.

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

21. Terms and Mode of Payment

A) Payment Terms - Equipment Supply

- a) 50% of supply value shall be released against supply and certificate for receipt of the item in good condition from the Hospital/purchaser.
- b) 45% payment shall be released against certificate of installation and commissioning certified by the Hospital Authorities/purchaser.
- c) Final 5% shall be released against submission of certificate issued by Hospital/purchaser certifying that the facility has been installed, commissioned and handed over and submission on Performance Security and other documents stated in this tender.
- d) Payment shall be made subject to recoveries, if any, by way of liquidated damages or any other charges as per terms & conditions of contract 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) Payment Terms - Turnkey part (Civil & Electrical works)

- a) 50% of the total value of work may be released upon the completion of 60 % of the work recommended by State In charge (P&S, HLL) and approved by Project Engineer (P&S, HLL)/ Manager (P&S, HLL).

- b) Balance 50% will be paid along with the final bill only after submission of Work Completion certificate issued by the concerned hospital and approved by Project Engineer (P&S, HLL)/ Manager (P&S, HLL).
- c) 5% amount of the Bill will be retained as retention money and will be released only after the Defect liability period of 12 months.
- d) Final Bill to be submitted detailing the work description, quantity and rate as per the Work Order. Payment will be made against actual measurements recorded and certified jointly by State In Charge (P&S, HLL) and the Contractor 's representative, counter signed by Project Engineer (P&S, HLL)/ Manager (P&S, HLL). The work completion certificate will be issued by the concerned centres/hospitals and it is the responsibility of the contractor to collect the completion certificate certified by the concerned hospital authority & HLL authorities and submit to HLL for balance 50% payment
- e) The running account bills are to be submitted detailing the work description, quantity and rate as per the Work Order. Payment will be made against actual measurements recorded and certified jointly by State in charge (P&S, HLL) and the Contractor's representative. For supply of capital items, duly certified delivery challan/supporting documents such as Warranty Certificates etc. shall be enclosed along with bill.
- f) Tax Deduction: All statutory deductions like GST, Income Tax, Works Contract Tax, E.S.I., P.F. or any other government-imposed liabilities shall be borne by the Contractor (as applicable at the time of execution of job) and shall be deducted from each bill submitted by the Contractor.

21.1 CAMC Payment :

The payment of CAMC will be made on half yearly basis, after satisfactory completion of said period on submission of bills with supporting documents, certified by the Hospital authorities, in proof of preventive and breakdown maintenance having rendered in the 4 months. In case the supplier fails carry out the preventive maintenance, in the stipulated period, the purchaser may extend the period of contract to the period of non services_or impose the penalty on the supplier at the discretion of the Purchaser. However such non service(s) is/ are by a reason of Hospital, the penalty / extension mentioned above will not be applicable.

- 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 The payment shall be made in Indian Rupees.
- 21.5 The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date.
- 21.6 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.
- 21.7 The payment for the preventive maintenance will be released only on the submission of performance security of 5% for the particular year.

22. Delay in the supplier's performance

- 22.1 The supplier shall deliver of the goods and perform the services under the contract within the time schedule specified by the Purchaser in the List of Requirements and as incorporated 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
 - or
 - (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 in writing about the same and its likely duration and make a request to the Purchaser for extension of the delivery schedule accordingly. On receiving the supplier's communication, the Purchaser 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 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 applicable taxes 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 shall be entitled to the benefit of any decrease in price on account of reduction in or remission of applicable taxes 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 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.

23. Liquidated damages

- 23.1 Subject to GCC clause 26, if the supplier fails to deliver any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, the Purchaser shall, without prejudice to other rights and remedies available to the Purchaser 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 and/or services until actual delivery or performance subject to a maximum of 10% of the contract price or actual liability of the purchaser due to delayed supply of goods and/or services/ or total performance of the contractor, whichever is higher. Once the maximum is reached Purchaser 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, without prejudice to any other contractual rights and remedies available to it (the Purchaser), 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 pursuant to GCC sub-clauses 22.3 and 22.4.
- 24.2 In the event of the Purchaser terminates the contract in whole or in part, pursuant to GCC sub-clause 24.1 above, the Purchaser 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 for the extra expenditure, if any, incurred by the Purchaser for arranging such procurement.
- 24.3 Unless otherwise instructed by the Purchaser, 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.

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, acts of the Purchaser either in its sovereign or contractual capacity, 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 in writing of such conditions and the cause thereof within seven days of occurrence of such event. Unless otherwise directed by the Purchaser 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 Termination of this agreement for whatever reason shall not affect the obligation/ liabilities of both the parties accrued hereunder in respect of matters at the time of the agreement.
- 26.5 In case due to a Force Majeure event the Purchaser is unable to fulfil its contractual commitment and responsibility, the Purchaser will notify the supplier accordingly and subsequent actions shall be taken on similar lines described in above sub-paragraphs.

27. Termination for convenience

- 27.1 The Purchaser reserves the right to terminate the contract, in whole or in part for its (Purchaser's) convenience, by serving 7days 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. The notice shall also indicate interalia, 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 following the contract terms, conditions and prices. For the remaining goods and services, the Purchaser 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 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 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.

If the parties fail to resolve their dispute or difference by such mutual consultations within twenty one days of its occurrence the same shall be referred for arbitration to a Sole arbitrator to be appointed by the C&MD, of the Purchaser Arbitration shall be conducted as per the provisions of the Arbitration and Conciliation Act 1996 or any statutory modification or re-enactment thereof for the time be in force. The arbitrator shall give a reasoned award. The award of the arbitrator shall be final and binding on the parties to this contract. The venue of arbitration shall be Thiruvananthapuram, Kerala, India and the language of the proceedings shall be English
The arbitrator shall be requested to give reasoned award.

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. General/ Miscellaneous Clauses

- a. Nothing contained in this Contract shall be constructed as establishing or creating between the parties, i.e. the Supplier/its Indian Agent/CAMC Provider on the one side and the Purchaser on the other side, a relationship of master and servant or principal and agent.
- b. Any failure on the part of any Party to exercise right or power under this Contract shall not operate as waiver thereof.
- c. The Supplier shall notify the Purchaser of any material change would impact on performance of its obligations under this Contract.
- d. Each member/constituent of the Supplier/its Indian Agent/CAMC Provider, in case of consortium shall be jointly and severally liable to and responsible for all obligations towards the Purchaser for performance of contract/services including that of its Associates/Sub Contractors under the Contract.
- e. The Supplier/its Indian Agent/CAMC Provider shall at all times, indemnify and keep indemnified the Purchaser against all claims/damages etc. for any infringement of any Intellectual Property Rights (IPR) while providing its services under CAMC or the Contract.
- f. The Supplier/its Agent/CAMC Provider shall, at all times, indemnify and keep indemnified the Purchaser 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.
- g. All claims regarding indemnity shall survive the termination or expiry of the contract

SECTION –IV

SPECIAL CONDITIONS OF CONTRACT (SCC)

1. General requirement for eligibility

- a) In order to decide the responsiveness of tender, the Purchaser may ask to the tenderer for Demonstration of equipment/system, presentations and sample and the tenderer shall arrange Purchaser's requirement as and when so asked, failing which the tender shall be deemed as non-responsive.
- b) The Licences, Certifications, if any, required from the regulatory authorities in India with respect to this tender shall be produced along with the tender.
- c) All technical details, catalogue, application details, shall be provided along with the tender.
- d) Signed copy of Tender Document (all pages of Bid documents to be signed & stamped) by the Bidder as token of acceptance of the Terms & Conditions.
- e) Duly filled, signed and sealed forms as per the Annexures of the tender document.
- f) Power of attorney in Rs 300/- in non-judicial stamp paper duly notarized by the authorized signatory to sign and submit the bid documents
- g) Sales Tax Clearance certificate(self attested copy)
- h) Copy of PAN Card.(self attested Copy)
- i) GST Registration Certificate
- j) Certificate of incorporation / Memorandum of Article (self attested copy)
- k) Last 3 financial years audited Profit & Loss, Balance Sheet duly certified by Chartered Accountant.
- l) EMD as per tender document.
- m) Tender Fee as per tender document. Undertaking for replacement of complaint / defective items as Annexure ...
- n) One to one compliance statement to technical specification requirements against each item shall be provided along with the tender, with pamphlets/Catalogs.
- o) Acceptance test should be done at designated hospitals, prior to handing over of equipment.
- p) All details of pre installation and installation works along with schedules & drawings should be supplied within a week of award of order.

2. Final Inspection

The final inspection of the Goods will be done by the Technical Committee of the Purchaser and Hospital Authorities after installation and commissioning of the goods.

3. Warranty:

- a) 5 years/1 year as per SECTION V (LIST OF REQUIREMENTS) for comprehensive warranty as per Conditions of Contract of the TE document for complete equipment from the date of satisfactory installation, commissioning, trial run & handing over of equipment to Hospital/Institution.
- b) 95% uptime 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 by the supplier free of cost during Warranty period.

4. After Sales Service:

After sales service centre should be available at on 24 (hrs) X 7 (days) X 365 (days) basis. Breakdowns/Complaints should be attended within 8 hrs. An undertaking by the Manufacturer shall accompany the tender that the spares for the equipment shall be available for at least 10 years from the date of supply.

5. CAMC :

- a) Tenderer shall offer price for

CAMC rates separately in SECTION – X, PRICE SCHEDULE (B)

CAMC shall be awarded at the discretion of Purchaser/Hospital at the end of the warranty period.
- b) The CAMC shall be for 5 years after completion of prescribed warranty period.
- c) Preventive Maintenance services during CAMC shall be rendered on quarterly basis with minimum gap between two services shall be not less than 90 days and not more than 115 days. In addition, all breakdown calls shall be attended to immediately and all major repairs shall be rectified within 7 calendar days from the date of intimation, as per tender, failing which, a penalty of Rs.50,000/- per day thereof is leviable until the equipment is repaired and commissioned to the satisfaction of the end user, For this purpose supplier shall carry sufficient inventories to assure prompt replacement of defective parts as per tender
- d) Breakdown calls shall be attended immediately and major complaints shall be rectified within 7 calendar days from the date of intimation. The breakdown calls shall not be combined with preventive maintenance calls.
- e) In case the performance of CAMC services is not satisfactory and found below the 95% uptime level, the Purchaser / Hospital has the right to source the maintenance services from other means/agency at the risk and cost of supplier including termination of contract and legal/penal actions.
- f) On receipt of CAMC order, the supplier shall furnish performance security for an amount equal to 5% of the CAMC value per annum in the form of Demand Draft or Performance Bank Guarantee, which will be renewed in term with value of every year till completion of CAMC period.

- g) The cost of CAMC includes preventive maintenance with required testing, calibration as per technical/service/operational manual, labour and spares. The supplier shall undertake preventive maintenance as recommended in the manufacturer's technical/service /operational manual, but minimum once in three months during the 5 years CAMC period for preventive maintenance.
- h) The cost of CAMC may be quoted along with taxes and duties 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.
- i) The payment of CAMC will be made once in every four months after satisfactory completion of said period, duly certified by Hospital authorities, but subject to valid Performance Security.
- j) There will be 95% uptime warranty during CAMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CAMC period by double the downtime period.
- k) During the CAMC period, all software updates should be provided free of cost.

SECTION V

LIST OF REQUIREMENTS

List of Equipments

Sl. No.	List of Essential Equipments for NICU - 21 Bedded	Warranty	Qty
1	Open care system: Radiant warmer	5 years	3
2	Wall mounted Radiant warmer	5 years	12
3	LED Phototherapy unit, detachable type	5 years	6
4	Neonatal Ventilator	5 years	2
5	CPAP Machine	5 years	5
6	HHHNFC (Heated Humidifier)	1 year	1
7	Multiparamonitor - High End	5 years	2
8	Multiparamonitor - Low End	5 years	15
9	ECG Machine	5 years	1
10	Blood Gas Analyser	5 years	1
11	Syringe pump, 10,20,50 ml, single phase	5 years	50
12	Mobile X - Ray machine	5 years	1
13	X - Ray Viewing box	1 year	2
14	Pump, suction, portable, 220V, w/access.	1 year	1
15	Pump, suction, foot-operated	1 year	1
16	Glucometer with 100 dextrostix	1 year	6
17	Infantometer, Plexi, 3½ft/105cm	1 year	2
18	Scale, baby, electronic, 10 kg <5g>	1 year	3
19	Drum,sterilising,165mm diameter	1 year	9
20	Tape, measure, vinyl-coated, 1.5m E2	N/A	21
21	Stethoscope, binaural, neonate	1 year	21
22	Laryngoscope set, neonate	1 year	15
23	Resuscitator, hand-operated, neonate, 250ml	1 year	5
24	Resuscitator, hand-operated, neonate, 500 ml	1 year	10
25	Oxygen hood Small & Medium each 1, including connecting tubes	1 year	10
26	Basin, kidney, stainless steel, 825ml	N/A	21
27	Tray,dressing,SS,300x200x30mm	N/A	15
28	Echo Machine	5 years	1
29	Surgical instrument. suture/SET	N/A	5

Sl. No.	List of Essential Equipments for NICU - 21 Bedded	Warranty	Qty
30	Thermometer,clinical,digital,32-43°C	N/A	21
31	Hub cutter, Syringe	N/A	6
32	Medicine Storage and Dispensing Trolley	1 year	2
33	Instrument Trolley full SS	1 year	3
34	Stand infusion, double hook on casters	1 year	6
35	Wall Clock with Second hand	N/A	12
36	Double door Refrigerator 250 Ltrs with stand and stabilizer	5 year	2
37	Fully SS tables for ABG / Baby weighing scales.	1 year	4
38	Laminar Air flow	1 year	1
39	Autoclave, steam, bench top, 95L, electrical	1 year	1
40	Neonate Cooler	1 year	1
41	Air Conditioning with (AHU) with HEPA filter with positive air pressure and one room with negative pressure with minimum 20 air changes per hour with class 10000 standards	5 years	1
42	Online UPS for all the NICU beds with 30min backup -	1 year	1
43	Washing Machine	1 year	1
44	Dress Hangers	N/A	6
45	Decorators	N/A	1
46	Induction Stove	1 year	1
47	Basic Utensils	N/A	1
48	Microwave Oven	1 year	1
49	Refrigerator	5 years	1
50	RO Machine - 8 Ltrs	1 year	1
51	Television - 32"	1 year	1
52	Computer with Printer	1 year	1
53	Fumigation Dispenser	1 year	1
54	Centrifuge	1 year	1
55	Binocular Microscope	1 year	1
56	Ophthalmoscope	1 year	2
57	Neopuff	1 year	1
58	Oxygen Low Flow Meter with 0.1L/min	1 year	15
59	Civil & Electrical works	N/A	1 job

SECTION VI

Technical Specification

1) OPEN CARE SYSTEM: RADIANT WARMER, FIXED HEIGHT, WITH TROLLEY, DRAWERS

S/N	TECHNICAL SPECIFICATION
1	Essential parts: Cart & bassinet warming system with controls & alarms Examination light with digital display.
2	Storage space – One Storage drawer with one tray
3	2 platforms tray of approx. size 9” x 12”capable of holding up to 5 Kg of equipment like pulse oxymonitor etc.,
4	Cart: Should swivel on 4 wheels of at least 5” dia- with foot operated, 2 front lockable wheels.
5	Mobile newborn resuscitation table with fixed-height radiant warmer
6	Table surface with mattress with infant head/shoulder support
7	Mattress-padding: foam density approx. 21 - 25 kg/m ³
8	Mattress cover: removable with zipper, waterproof, washable, resistant to cleaning with chlorine based solution and flame retardant
9	Side boards transparent acryl, drop down and lockable
10	Under table 1 storage drawers
11	Side rails allow for mounting of accessories
12	Hood suspended above the table integrates heating element and overhead light
13	Overhead light: 1 x 12 LED Lamp without dimming function
14	Integrated support for 2 B - Type oxygen cylinders
15	Control unit has flow meter and displays pressure
16	Heating element: emitter with parabolic reflector and protected
17	Control unit allows air and skin temperature preset (LED indicator) and drives radiant heater
18	output (servo and manual)
19	Integrated timer: 1 to 59 min, with count-up and count-down feature
20	Temperature range, skin: 34 to 38°C (user pre-settable)
21	Monitoring of skin temperature by means of sensor, range: 30 to 42 °C

S/N	TECHNICAL SPECIFICATION
22	Accuracy: + 0.2° C
23	Resolution: 0.1° C
24	Heater output: 0 to 100% in increments of 5%
25	Control unit: audiovisual alarms according to timer and temperature presets avoiding overheating
26	Display reports systems errors, sensor failure.
27	Power requirement: 220 V/50 Hz
28	Power consumption: 800 W.
II	Power Supply
29	Power input to be 220-240VAC, 50Hz fitted with Indian plug
III	Standards, Safety and Training
30	Should have US FDA or European CE approved product
31	Manufacturer/Supplier should have ISO certification for quality standards. ISO 9001: 2008 & ISO 13485:2003
32	Installation and training should be given at end-user site.
33	User manual with trouble shooting guidance, in English.

2. WALL MOUNTED COMPREHENSIVE INFANT CARE WARMER

- Quartz based open care warmer with Servo and manual mode of operation.
- Should operate for infant required temperature range (servo) of 32 ° C to 38 ° C
- Heater power should be reduced and maintain at 60% after 10 minutes in manual mode for baby safety.
- Heater output control range (manual) - 0 to 100% incremental of 10%
- Control unit should have facility to convert Centigrade to Fahrenheit conversion
- Should have non touch dual examination lamp with dimming facility.
- The heater unit should be swivable for accommodating X-Ray unit and should have self lock facility.
- Should have a visual pilot lamp.
- Should have an oval shaped bed for greater accessibility and without crevices for ease in cleaning.
- Should have a firm antibacterial, Fire retardant mattress which allows air to pass through but does not allow water to seep in.

- The bed should be tilted to Trendlenburg and fowler like position
- Should have continuous variable bed tilting mechanism for a bed tilt between 0 to 12 °C on either side using Gas spring mechanism.
- Bed should have x-ray cassette holder that can be accessed without disturbing the infant.
- Bed should be swivable on both sides of vertical column of $\pm 60^\circ$ to facilitate intubation / resuscitation etc.
- Should have a strong IV stand (S.S) with height adjustable and facility to fix large number of infusion pumps, Mayo tray-2 No's on the same side.
- All metal parts of the equipment should be corrosion resistant and Epoxy/Powder coated.
- **Should have alarms** : High Infant Temperature, Low Infant temperature, Probe failure, Heater failure, Power failure , System failure, Oxygen set value change.
- Should have visual indicator for alarms on the heater unit
- Should be worked in 230v ($\pm 10\%$) 50Hz
- Should have maximum power consumption of 900w
- To increase the number of patient probe with each warmer should be 5 nos.
- Standards, safety and training
- Should be US FDA or European CE approved product and submission of the respective certificate of US FDA or European CE is mandatory
- Manufacturer should be ISO certified for quality standards
- Electrical safety conforms to standards for electrical safety IEC 60601-1 (OR equivalent international/national standard) General requirement for Electrical safety of Medical Equipment
- Should have local service facility .The service provider should have the necessary equipment recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.
- Items covered under warranty/CMC
- Consumables should be available for at least next seven years.
- Prices of consumables should be quoted separately and frozen for the period of warranty and CMC
- Power supply
- Power input to be 220-240VAC, 50Hz
- Suitable Autovoltage corrector with spike protector should be available

- Environmental factors
- Shall meet IEC-60601-1-2:2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility or should comply with 89/366/EEC; EMC-directive.
- The unit shall be capable of being stored continuously in ambient temperature of 0-50deg C and relative humidity of 15-90%
- The unit shall be capable of operating continuously in ambient temperature of 20-40 deg C and relative humidity of 15-90%
- Documentation
- User/Technical/Maintenance manuals to be supplied in English
- Certificate of calibration and inspection from factory
- 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
- Essential accessories to be supplied at initial purchase with each piece of equipment
- Reusable temperature probes (full set): 5 nos/per equipment.
- The rates of consumable accessories should also be quoted separately
- Onsite physical demonstration/training of the equipment to all the end users with all the requested facilities will be mandatory
- Power consumption - Less than 1 K.W,All metal parts of the equipment should be corrosion resistant and Epoxy/Powder coated
- All consumables required for installation and standardization of system to be given free of cost. Availability of spares for at least 7 years after date of installation
- Self test function performed at power on
- Digital display should show following parameters
 - i. Set temperature
 - ii. Present temperature of the baby
 - iii. Heater output
- Mode - Manual & skin (servo)
- Manual mode
- Adjustable in steps from 0 to 100% in increments of 10%
- Heater power should be reduced to 50 - 60% after 10-15 minutes in manual mode for baby safety
- Skin mode (servo mode)

- Set point range - 32 – 38 degrees C
- Skin temperature display
- Accuracy - ± 0.2 degrees C
- Resolution - 0.1 degree C
- Temperature probe- Wire should be easy to clean and long lasting
- No need of temperature probe calibration
- Control unit should have facility to convert Centigrade to Fahrenheit conversion
- Examination light
- Illuminance - at least 75 foot candles at mattress centre
- Should have dual examination lamp with dimming facility
- Apgar Timer
- Timer with stopwatch facility
- Reset facility
- The system should have international CE approval from a notified body
- The manufacturer should be ISO 9001: 2008 & 13485 certified.
- Should be supplied with the following standard accessories
- Patient probe – 1 No.
- Mattress- 1 No.
- User manual with trouble shooting guidance, in English
- Installation and Training at end-user site.

3. LED PHOTOTHERAPY UNIT, DETACHABLE TYPE

S/N	TECHNICAL SPECIFICATION
1	The device should have a stable base with antistatic castors. At least two castors must have brakes.
2	Minimum irradiance should be $25 \mu\text{W}/\text{cm}^2 /\text{nm}$ - $30 \mu\text{W}/\text{cm}^2 /\text{nm}$ at 45cm distance between bed and light unit
3	The device should have height adjustment of at least 0.4m. Height adjustment shall be between 1.10 to 1.60 m
4	The device should have a continuous tilt up to 90 deg for use alongside infant warmers
5	The device should have a blue LED light source with a narrow wavelength band (preferably less than 30 nm) and centered around 458 nm for optimal treatment of Jaundice.
6	Minimum irradiance should be $25 \mu\text{W}/\text{cm}^2 /\text{nm}$ - $30 \mu\text{W}/\text{cm}^2 /\text{nm}$ at 45cm distance between bed and light unit

S/N	TECHNICAL SPECIFICATION
7	Should have visual and audible alarms for the following
8	Internal temperature >550 C
10	If LED current increases or decrease
11	If LED volt increases or decreases.
12	Peak spectral irradiance: at least 30 $\mu\text{W}/\text{cm}^2/\text{nm}$ at 30 cm distance and 50 $\mu\text{W}/\text{cm}^2/\text{nm}$ at 20 cm distance (as measured with Minolta-Airshields or Olympic flux meter).
13	Large effective surface area: mean spectral irradiance of at least 20 $\mu\text{W}/\text{cm}^2/\text{nm}$ over an area of 25cm by 50cm at 30cm distance.
14	The source of lamps (manufacturer) should be identified and a certificate of the emission spectrum from a government/research laboratory should be provided.
15	Durability: LEDs are protected by suitable cover made of fire resistant transparent material.
16	Digital Treatment time counter
17	LEDs are protected by suitable cover made of fire resistant transparent material
18	Sturdy mobile stand
19	1 spare set of fuses per machine
20	A list of consumable items should be provided along with its price which will be frozen for the duration of warranty
21	Manuals: One set of operator & service manuals
22	The device should deliver a minimum irradiance of 30uW/cm2/nm in its setting.
23	The device should have minimum 2 modes for a High Level and Low Level setting.
24	The device should have at a minimum have an effective surface area of 1500 cm2 to adequately cover the babies.
25	The device should have a uniformity ratio > 0.4
26	The device should have a low noise level preferably < 25dB.
27	The device should be able to operate in low & high voltage fluctuations, preferably from 120V - 240V.
28	The device should consume very low power up to 25W.
29	The device should have an in-built timer to measure the device usage.
30	The light source should have a high life preferably minimum of 1,00,000 hours
31	The device should be designed to cool the unit without needing an in-built fan.
II	Safety Specifications
32	The device should have an in-built safety cut-off if the temperature increases.

S/N	TECHNICAL SPECIFICATION
33	Complete unit should conform to internationally accepted quality standards and should carry the certification of the applicable product quality standard such as US FDA 510k or European CE 93/42. The supporting document in this regard should be submitted along with the bid.
34	The manufacturer should be ISO 13485 certified. (Certificate to be submitted) and product should be CE93/42 or US FDA approved. (Certificate to be submitted)
III	Other Specifications
35	Should have local service facility. The service provider should have the necessary equipment's recommended by the manufacturer to carry out preventive maintenance test as per guidelines provider in the service/maintenance manual.
36	User/Technical/maintenance manuals to be supplied in English.

4. NEONATAL VENTILATOR

I	TECHNICAL SPECIFICATION
	General : Ventilator should be specifically designed for Neonatal /Infant Patient Range.
1	Advanced microprocessor based continuous flow, pressure limited, time cycled ventilator for very low body weight infants (premature, newborns) and / or paediatrics based on ideal body weight input setting on start-up.
2	Should have mains/battery operation with at least 30 minutes backup. (Additional battery backup up to 2 hours can be offered at additional cost).
3	Should be a modular design with upgradeable hardware and software functions.
4	Ventilator should have integrated device check with user prompt via screen messages
	o for determination and display of compliance
	o Inspiratory and expiratory resistance
	o leakage of patient hose system
	o checking of all internal components such as valves, gas supply system, flow sensors, expiratory valve
5	Should have inbuilt 10- 15 inch TFT or color touch screen with user configurable display as below:
	a. Pressure, Flow, Volume curves as standard with PV, FV, PF loops.
	b. Trends - graphical trends
6	Should be a four-in-one device with, NIV, invasive ventilation and High frequency ventilation with Volume Guarantee suitable accessories.
7	The ventilator should be supplied with heated servo controlled humidifier F&P MR850 with suitable hoses and chambers for neonatal patients. Or inbuilt servo humidifier
8	Flow sensor: It should be proximal flow sensor calibration within 5 seconds or Auto calibration . Should be easily replaceable without disassembling the machine or disassembling the expiratory valve

I	TECHNICAL SPECIFICATION
9	The ventilator should have following standard ventilation modes as below:
	a. Pressure Controlled – Control, Assist, SIMV, CPAP.
	b. PC-Pressure Support Ventilation
	c. Volume Guarantee in Control, Assist, SIMV and HFOV
	d. Apnea Backup Ventilation
11	Special functions / procedures to be available such as:
	a. Suction Mode – 100% O ₂ delivered during in line suction to compensate for drop of FiO ₂ .
	b. Manual Inspiratory Hold
	c. Inbuilt Nebulisation – inspiration synchronised, volume compensated; to be supplied as standard scope of supply with adjustable time of 5,10,15,30 minutes
12	There should be automatic:
	a. Leakage compensation
	b. Device and hose compliance
	c. Device and hose resistance
	d. Compensation of flow and volume measurements related to ET Tube leakage
13	Should have settings for :
	Tidal Volume (in Volume Guarantee) : 2 – 150 ml
	Peak Inspiratory Pressure : 1 - 60 cmH ₂ O
	PEEP : 0 – 35 cmH ₂ O
	Inspiratory Time : 0.1 – 2 sec
	Rate : 0 - 150 bpm
	Inspiratory flow : 2 – 30 lpm or automatic
	Slope control/ Rise Time : 0 - 2 sec or Flow pattern
	FiO ₂ (integrated blender without bleed flow) : 21 - 100%
	Flow Trigger : 0.2 – 2 lpm
	Automatic altitude compensation with automatic calibration : 700– 1060 hPa/ mbar/ CmH ₂ O/
14	Should have selection of measurement conditions for NTPD or BTPS. The real time data should be monitored at Y-piece for:
	o Pressure - Peak, Plateau, Mean, CPAP/PEEP, P min (Minimum airway pressure)
	o Volume – Total Minute Volume, Inspired Tidal Volume, Expired Tidal Volume
	o Leakage - Leakage as %
	o Frequency/ Rate - Set (Inspiratory), Spontaneous , total FiO ₂ ,
	o Lung Mechanics - Resistance, Compliance , C ₂₀ /C
	Trends for 24 hours
	o Integrated alarm log

I	TECHNICAL SPECIFICATION
15	Should have automatic alarm settings for all alarms with clear text messages/ corrective action for:
	o Disconnection
	o Ventilation hose kinked
	o High/low Pressure
	o High/low Minute Volume
	o High Rate
	o High Tidal Volume
	o Apnoea / apnoea alarm time
	o High/low O2 % (automatic settings)
	o Oxygen line failure
	o Compressed air failure
	o Total electronic failure (with error code)
16	Each unit should be supplied with:
	o Basic Unit (220 - 240 V) with compressor and battery backup for 2 hours; battery should power entire unit including compressor
	o Modular corrosion free Trolley - should be imported, of same make as the quoted brand and no local substitute will be accepted/ should be offered.
	o Reusable heated Hose set for use with MR850 for neonatal patients or inbuilt same make servo humidifier .
	o for conventional ventilation
	o for conventional and HFO ventilation
	o Disposable heated hoses for extremely infectious patients should be also supplied – 5 Nos
	o Servo controlled humidifier (F&P MR 850) with reusable chamber or inbuilt same make servo humidifier .
	o autoclavable and reusable Proximal flow sensor – 2 nos . Should be covered under warranty and CMC . The quoted firm must replace it as when it fails
	o Inbuilt Permanent O2 cell; if consumable then same should be offered for life of equipment. Disposables:
	o Disposable patient hose set – 5 No.s
	o Nasal CPAP Kit - 5Nos (in 5 sizes)
	o Nebuliser – pneumatic, and volume compensated
	o Oxygen connecting Hose – 3 meters
	o Air connecting Hose – 3 meters
	o Hinged arm Support for patient circuit – should be imported, of same make as the quoted brand and no local substitute will be accepted/ should be offered
	o Integrated RS232C Interface for data transfer
	o Neonatal test lung
	o Instruction Manual in English

I	TECHNICAL SPECIFICATION
17	Quality Standards and Support requirements –
	o The offered unit should have CE/ USFDA certificate or its National Certifying Authority.
	o EN ISO 9001, EN ISO 13485
	o The unit should comply with relevant IEC Certification
	o Indian subsidiary/ dealer should have nationwide network, support offices and must be also ISO 9001 certified.
	o Optional features to be quoted indicating separate price
18	Nasal CPAP kit (standard)
	a. The nasal CPAP unit should be self-contained with head strap, hood, nasal prongs, fixing unit.
	b. Should be possible to field upgrade the same if required
	c. Should be possible to use in Control mode or CPAP
	d. Masks, prongs, head bands, caps should be supplied as standard in 5 sizes
19	HFOV (standard)
	a. It should be possible to combine HFOV as below :
	o Control + HFOV / Sigh + HFOV
	o The HFOV function should be integrated in same machine and NOT as an external facility/add on.
	o The HFOV function should control :
	Frequency in Hz : 5 –15 Hz.
	o Pressure Amplitude : 1 – 90 cmH ₂ O.
	o MAP : 5 – 30 cmH ₂ O
	o I :E Ratio : 1 :1 to 1 :3
	o It should be possible to use HFOV WITHOUT disconnecting the patient by simply switching ON/OFF in the same machine. If HFOV is offered, separate patient tubings for same to be offered.
	o Should measure parameters in HFOV such as DCO ₂ , VtHF (tidal volume in HFOV), MVim (MV in IMV strokes in inspiration), VTim (MV in IMV strokes in expiration)
24.	Graphical display – representation of resistance/compliance
25	Onsite demonstration and training of equipment
26	Documentation
	a. User/Technical/Maintenance manuals to be supplied in English
	b. Certificate of calibration and inspection from factory
27	Comprehensive warranty for at least 5 years with at least 3-monthly visits for routine checking and whenever called for troubleshooting

I	TECHNICAL SPECIFICATION
28	Company should ensure the supply of consumables and accessories for the period of warranty and CMC.
29	Items covered under CMC: Prices of consumables and accessories should be quoted separately in the financial bid for the entire period of warranty and CMC. Company should ensure the supply of consumables and accessories for the period of warranty and CMC.
30	General requirement for Electrical safety of Medical Equipment
32	Should have local service facility
32	The service provider should have the necessary equipment's recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.
	o Complete system, should be mounted on a rust resistant stand with sturdy castor wheels having breaks.
	o Power requirement: 220-240Volts, 50Hz
	o Capability to run continuously for days and weeks
	o Equipment should be European CE/USFDA certification.

5. CPAP MACHINE

TECHNICAL SPECIFICATION
Ø CPAP system should include blender, humidifier, mountable on a mobile stand, adjustable I.V pole with two hooks, monitoring holder for humidifier, interface and circuits.
Ø Auto-Level Mechanism ensures constant mean CPAP pressure.
o Detachable overflow container allows continuous CPAP while removing excess water from
Ø Condensate.
o Soft, Pliable Material.
o Split top design for better fixation.
o Should supply each of 4 Sizes.
Ø CPAP GENERATOR
Ø CPAP Probe allows ease of pressure setting from 3 to 10cm H2O.
Ø Auto-Level Mechanism ensures constant mean CPAP pressure.
Ø Detachable overflow container allows continuous CPAP while removing excess water from condensate.
Ø Easy mounting
Ø Humidifier bracket
Ø NASAL MASKS
Ø Servo controlled humidifier base with digital temperature display alarms for conditions

TECHNICAL SPECIFICATION

Ø like high and low temperature, humidity and disconnections
Ø Should work on centralized oxygen and Air.
Ø Pressure generator near the baby should be Single use.
Ø The CPAP machine should be able to deliver and expiratory pressure of 0-10cm water with increment of 1cm of water.
Ø Should have an built air oxygen blender to provide FiO ₂ of 21%-100% with an increment of 1% and FIO ₂ accuracy +/-3% of settings at full range even at low settings.
Ø Should have a flow control of 0 to 15 LPM, with an accuracy of +/- 0.5LPM and able to adjust flow by at least 0.5LPM.
Ø Should work on gas supply pressures 30-75 PSI air and O ₂
Ø Bias gas flow 5-8 L/Min.
Ø Should be supplied with heated wire humidifier which should be able to provide relative humidity of upto 100%.
Ø Humidifier should be able to warm gases to 34-37C (with temp display)
Ø Should be able to provide clear and bright display of pressure selected and FiO ₂ .
Ø There should be alarm limits of +/- 1cm H ₂ O for CPAP pressures and +/-3% for FiO ₂ .
Ø Should be able to set low and high alarm limits for pressure, low and high FiO ₂ , Apnea and no inlet gas. There should be visual display, auditory alarm in case of low and high pressure of low and high FiO ₂ , Apnea and no inlets gas.
Ø Reusable circuit with tubing made of medical grade material; with low dead space and low compliance.
Ø Patient outlet to be able to fit on to standard nasal system (Hudson, Argyles short binasal prongs and short binasal prongs compatible with flow driven CPAP systems); bi nasopharyngeal prongs (Vygon)
Ø Complete system, should be mounted on a rust resistant stand with sturdy castor wheels having breaks.
Ø Power requirement: 220-240Volts, 50Hz
Ø Capability to run continuously for days and weeks
Ø Manuals: Operator manual should be supplied.
Ø Equipment should be European CE/USFDA certification.
Ø Consumables/Accessories per CPAP machine (with initial supply)
a. On site demonstration of the accessories would be mandatory. Those not of suitable superior quality will be rejected.
b. Complete 2 reusable CPAP circuit & 20 set of disposable circuit, with tubings, bonnet, prongs and any other part (as per requirements of the user for various categories i.e 10 for <1000 gram babies, 7 for 1000-2000 grams and 3 for >2000 gram babies) for both i.e flow driven and bubble.

6. (HHHNFC) HEATED HUMIDIFIER MACHINE FOR NEONATE/INFANT

- The heated humidifier system is for optimum humidification and patient comfort.
- The system should provide optimal humidification to all intensive care patients, the systems should ensure the exceptional performance and safety, and the unique components combine to enhance, the care for patient requiring ventilator, NPPV, CPAP and oxygen support.
- Unit should provide and maintain optimal humidity and light weight breathing circuits should create less drag on patient connections.
- The system should include every component from ventilator to patient
- Unit chamber should automatically maintains a constant water level
- The unit should have dual float mechanism uses backup float for safety
- The patient wearing with circuit step-down option
- The expiratory limb mobile condensate is eliminated with the evaqua dual heated circuits.
- The heated humidifier system should include blender, humidifier, mountable on a mobile stand, adjustable I.V pole with two hooks, monitoring holder for humidifier, interface and circuits.
- The heated humidifier should be closed system
- The system should be suitable for all patients, and it should provide optimal humidity to all the ICU patients.
- Unit should have Clinically-based alarm system and select invasive or non invasive mode.
- Should work on centralized oxygen and Air. Should also work without Oxygen input.
- Pressure generator near the baby should be single use.
- Rates for disposable circuit shall be quoted and it shall be valid for 7 years.
- The Heated humidifier machine should be able to deliver and expiratory pressure of 0-10cm water with increment of 1cm of water.
- The unit should be provided with tubing and circuits.
- Unit should be supplied with all the standard accessories and one set of consumable along with the machine.
- Unit should deliver optimal humidity for invasive and non invasive patients,

- It should be designated for modern Bi-Level/CPAP ventilators requiring a low resistance to flow circuit.
- Supply voltage: 230V-, 115V-, 100-,
- Frequency:50/60 Hz
- Maximum power usage 210W
- Warm up time: < 30 minutes
- Flow range: Invasive (Continuous) 3-60l/min
Non invasive (ventilator flow) 3-120L/min
- Chamber should be constant compressible volume
- Circuits should be latex free
- Accessories: Catheter mount, patient weaning kit
- The equipment should be European CE 93/42 or US FDA 510k certified.
- The Manufacturer should be ISO 9001 and ISO 13485 certified.
- Installation and training will be provided at end-user site.
- User manual with trouble shooting guidance, in English.
- Along with the system supplier should supply all the standard accessories, and 5 no.of disposable circuits and 1 no.of reusable circuit.

7. MULTIPARA MONITOR (HIGH END)

TECHNICAL SPECIFICATION
MULTIPARA MONITOR (HIGH END)
General:
<input type="checkbox"/> Parameters – ECG, heart rate, respiratory rate, SpO2, NIBP, Dual IBP, EtCO2, Dual Temperature. Should be Modular and capable of being connected to a central station.
<input type="checkbox"/> The equipment should come with all standard accessories required to run all parameters.
o Multipara monitor should be compatible with Hospital Information Systems (HIS).
o System should be US FDA or European CE approved for quality assurance.
o Monitor must be able to connect to central monitoring station and should use single network for all kind of networking with the central station or other hospital information system (HIS). It should have dual display, one for continuous display of all beds and other for trend review, full disclosure etc.
1. Distribution outline:
<input type="checkbox"/> Basic parameters (ECG/heart rate, O2 saturation, NIBP, respiration & temperature) – in all monitors
<input type="checkbox"/> Invasive BP module: in all monitors

TECHNICAL SPECIFICATION
<input type="checkbox"/> Microstream end tidal CO2 module monitor in four monitors
2. General:
<input type="checkbox"/> Modular system with network LAN port to connect to a central station. Quoted central station should have the capability to store trends 96-120 hrs with capability to hold the data for 3 days even after discharge of the patient. Central station should have HL 7 data output port to communicate with HIS or ICU integration system.
<input type="checkbox"/> The equipment should come with all standard accessories required to run all parameters suitable for all patient categories, ie. Infants, children and adolescents.
<input type="checkbox"/> Waveform display: at least 6 channels, user selectable Digital display: Heart rate, respiratory rate, oxygen saturation, temperature, Blood Pressure (systolic, diastolic, mean), EtCO2.
<input type="checkbox"/> Should be upgradable for measurement of cardiac output/SvO2
<input type="checkbox"/> System should be compatible with HIS and be HL-7 compliant
<input type="checkbox"/> Ready to run web based applications like HIS, PACS, RIS, LIS etc on patient monitor screen itself without need of additional server/PC hardware and software as standard supply.
3. Individual Monitors :
<input type="checkbox"/> Wall mountable and pivot able Medical grade, TFT Flat screen, slim size, at least 15"-19" touch screen display.
<input type="checkbox"/> Screen resolution at least 1280x1024 pixels
<input type="checkbox"/> Clear bright color display with large character size
<input type="checkbox"/> Should have both remote/ mouse control and knob control/ touch screen
<input type="checkbox"/> Viewing angle at least 90o
<input type="checkbox"/> Adjustable contrast and brightness
<input type="checkbox"/> Ability to zoom any parameters
<input type="checkbox"/> Ability to adjust individual alarms
<input type="checkbox"/> Ability to change color of the trace by user
<input type="checkbox"/> RS 232 serial data output provision (peripheral printer or network), analogue output for ECG
<input type="checkbox"/> Store and review trends for at least 24 hours
4. Parameters monitored :
<input type="checkbox"/> The following modules complete with their accessories:
<input type="checkbox"/> Heart rate/ECG
<input type="checkbox"/> Respiration
<input type="checkbox"/> Oxygen saturation
<input type="checkbox"/> Temperature
<input type="checkbox"/> Noninvasive Blood pressure
<input type="checkbox"/> Invasive blood pressure
<input type="checkbox"/> Microstream / Mainstream EtCO2 (four monitors)

TECHNICAL SPECIFICATION	
5. Heart rate/ECG:	
<input type="checkbox"/>	At least 3-lead selectable ECG
<input type="checkbox"/>	Built in arrhythmia monitoring in all leads
<input type="checkbox"/>	Inbuilt ST segment analysis and arrhythmia detection facility
<input type="checkbox"/>	Display of 2 ECG leads simultaneously at a time
<input type="checkbox"/>	Heart rate range 30-300 bpm
<input type="checkbox"/>	Accuracy + 5 bpm
<input type="checkbox"/>	Display sweep speeds 12.5, 25 mm/sec (user adjustable)
<input type="checkbox"/>	Averaging time: user selectable up to 8 seconds
<input type="checkbox"/>	ECG amplitude user adjustable
<input type="checkbox"/>	Defibrillator protected
6. Respiratory rate:	
<input type="checkbox"/>	Measured by transthoracic impedance using the same ECG lead
<input type="checkbox"/>	Range 6 to 120 breaths/min
<input type="checkbox"/>	Accuracy + 2 bpm
<input type="checkbox"/>	Display sweep speeds 6.25, 12.5 & 25 mm/sec (user adjustable)
<input type="checkbox"/>	Averaging time: user selectable up to 8 seconds
<input type="checkbox"/>	User selectable apnea alarm time
7. Oxygen Saturation:	
<input type="checkbox"/>	Masimo-SET/Spacelabs/nelcor technology to take care of low perfusion states and motion artifacts
<input type="checkbox"/>	Dual wavelength LED pulse oximetry
<input type="checkbox"/>	Range 1 to 100%
<input type="checkbox"/>	SpO2 accuracy : + 2 % (70-100% range)
<input type="checkbox"/>	Averaging time: user selectable up to 8 seconds
<input type="checkbox"/>	Plethysmography waveform display
8. Temperature:	
<input type="checkbox"/>	Skin type capable of recording both central and peripheral skin temperature: 2 temperature sensors available, 1 for central and one for peripheral skin
<input type="checkbox"/>	Continuous digital display of two site temperatures
<input type="checkbox"/>	Range: 25-50 degree Celsius
<input type="checkbox"/>	Resolution: ± 0.1 degree Celsius
<input type="checkbox"/>	Accuracy: + 0.1 degree Celsius
9. Non invasive Blood pressure :	
<input type="checkbox"/>	Capable of measuring blood pressure in infants, children upto 18 years of age
<input type="checkbox"/>	Microprocessor software with unit in mmHg
<input type="checkbox"/>	Oscillometric technique
<input type="checkbox"/>	Manual, auto and time limited stat modes
<input type="checkbox"/>	User selectable automatic time intervals

TECHNICAL SPECIFICATION
<input type="checkbox"/> Display systolic, diastolic and mean BP
<input type="checkbox"/> Blood pressure range
<input type="checkbox"/> Systolic: 20- 250 mm Hg
<input type="checkbox"/> Diastolic: 10-120 mm Hg
<input type="checkbox"/> Mean: 20 – 100 mmHg
<input type="checkbox"/> Pulse rate range : 30-300 bpm
<input type="checkbox"/> Cuff : auto deflate with over pressure protection
<input type="checkbox"/> Should automatically establish zero reference after each reading
10. Invasive Blood pressure
<input type="checkbox"/> At least 2 channels
<input type="checkbox"/> Compatible with reusable and disposable pressure transducers
<input type="checkbox"/> Transducer should allow continuous infusion into the artery through an infusion pump while pressure is simultaneously displayed
<input type="checkbox"/> Input through pressure transducer that functions through a fluid filled catheter system
<input type="checkbox"/> Unit: mmHg
<input type="checkbox"/> Should allow continuous fluid infusion into the artery /vein through an infusion pump without any volume limitation
<input type="checkbox"/> Compatible with arterial BP, CVP, pulmonary artery pressure and intracranial pressure monitoring catheters
<input type="checkbox"/> Range 0-300 mmHg
<input type="checkbox"/> Display resolution: ± 1 mmHg
<input type="checkbox"/> Accuracy ± 1 mmHg
<input type="checkbox"/> Digital waveform display
<input type="checkbox"/> User selectable pressure channel display
12. Microstream end tidal capnography (EtCO₂)
<input type="checkbox"/> Module should be interchangeable with any of the 5 monitors
<input type="checkbox"/> Micro stream technology with pediatric and adult mode
<input type="checkbox"/> Display of both waveform and numerical values
<input type="checkbox"/> Measured parameters: EtCO ₂ , CO ₂ waveform, Respiratory rate
<input type="checkbox"/> CO ₂ range – 0-150 mmHg
<input type="checkbox"/> Respiratory rate – 0-150 breaths / min
<input type="checkbox"/> Display – in mmHg and %
<input type="checkbox"/> Accuracy - ± 2 mmHg (0-38 mmHg)
13. User selectable alarms
<input type="checkbox"/> High and low heart rate
<input type="checkbox"/> High and low respiratory rate
<input type="checkbox"/> Apnea with adjustable time 5-20 seconds
<input type="checkbox"/> High and low saturation
<input type="checkbox"/> High and low SBP
<input type="checkbox"/> High and low DBP

TECHNICAL SPECIFICATION
<input type="checkbox"/> High and low MAP
<input type="checkbox"/> High and low EtCO ₂
<input type="checkbox"/> Probe failure
<input type="checkbox"/> Poor signal
<input type="checkbox"/> Power failure
<input type="checkbox"/> Audio & visual alarms with message
14. Trends
<input type="checkbox"/> Memory storage : at least 48 hours
<input type="checkbox"/> Data display interval : 1 minute
<input type="checkbox"/> Display range : last ½ hour to 24 hours
<input type="checkbox"/> Graphical and tabular format of display of variables
15. Power 220/240 V
<input type="checkbox"/> 50/60 Hz AC
<input type="checkbox"/> Rechargeable battery with a backup of atleast 1 hr/ UPS should be provided
16. Manuals: Operator & service manuals
17. Should be approved & certified by FDA (USA) or European CE
18. Manufacturer should have ISO certification for quality standards
19. Shall meet the safety requirements as per IEC 60601-2-27:1994—Medical electrical equipment—Part 2: Particular requirements for the safety of electrocardiographic monitoring equipment
20. Availability of consumables and spares for the full period of warranty and CMC. Cost of consumables and accessories should be quoted separately in the financial bid.
21. Warranty and CMC would include the periodic calibration of all parameters strictly as per manufacturer’s recommendations and any spares or standards required for that.
22. Onsite physical demonstration of the monitor with all the requested modules will be mandatory.
23. Quote separate price for web browsing facility in price bid. Also mention that how many beds can be connected with a single server.
24. Essential Accessories for 1 monitors
25. The following quantities are to be supplied with the initial order: ECG/Respiration
a. ECG patient cable: 2
b. ECG lead wires set (at least 5 leads): 5 sets
26. Disposable ECG electrodes for infants, pediatrics and adults:5 sets of each (set of 3) Oxygen saturation
a. Patient extension cables: 5
b. Reusable wrap around probes: 5
c. Reusable Y shaped finger probe:5
d. Reusable ear probe — • 5 Temperature
e. Reusable surface (skin) temperature probes: 5

TECHNICAL SPECIFICATION	
f.	Reusable rectal probe with cover kit: 5 NIBP
g.	Patient extension cable — 5 • Disposable NIBP cuff of size suitable for neonates (>2000g): 5 no.
h.	Reusable cuffs of pediatric and adult size- 5 each with each monitor IBP
i.	Transducer connecting cables: 5
j.	Reusable pressure transducer: 5
k.	Disposable pressure dome kit with flush device:5
l.	Main stream capnography (EtCO2) • Disposable EtCO2 sensors: Through ET tube: 1 No.
27.	The unit shall be capable of being stored continuously in ambient temperature of 0-50deg C and relative humidity of 15-90%
28.	The unit shall be capable of operating continuously in ambient temperature of 10 -50 deg C and relative humidity of 15-90%
29.	User/Technical/Maintenance manuals to be supplied in English.
30.	Certificate of calibration and inspection.
31.	List of important spare parts and accessories with their part number and costing.
<input type="checkbox"/>	Supplied with:
<input type="checkbox"/>	20 x Supplied with disposable ECG electrode
<input type="checkbox"/>	Installation and Training should be given at end-user site.
<input type="checkbox"/>	User manual with trouble shooting guidance, in English

8. **MULTIPARA MONITOR, VITAL SIGN, NIBP, HR, SPO2, ECG, RR, & TEMP. (LOW END)**

- Multipara Monitor Should be reputed brand and make
- Digital Multipara monitor with 6 vital sign suitable for neonate
- It should have simultaneous monitoring of all the vital sign with some data recording
- Should have alphanumeric or feather touch keypad or touch screen
- Should have high resolution LCD screen
- For NIBP Composed of disposable or cloth cuff with inflatable bag quick-connected via tube to main unit
- Disposable or cloth is washable, strong and reinforced at both ends
- Tube length approx 60 cm
- Strip of Velcro fastening; length can be adjusted to fit around neonate upper arm
- Measuring range: up to 300 mmHg
- Minimum graduation: 1 mmHg
- Accuracy: +/- 5%

- Large LCD display readable in low light working situations, display cover durable plastic
- Displays reports: systolic, diastolic and mean pressure and heart rate
- Power consumption: 30 W
- Should have provision for external printer connection
- Should work on power line as well as battery
- Light weight design for portability
- High performance Li-ion rechargeable battery
- Battery capacity: 2 hours of normal use
- It should work on 210/270 volts 50/60Hz, Single phase
- Supplied with Powder card, 3pin molded plug
- Well Packed in Individual
- Device is produced by ISO certified manufacturer
- Manufacturer should have a CE marked product
- **Supplied with:**
- 20 x Supplied with disposable ECG electrode
- 1 x reusable SpO2 sensors neonate, clip-on type (including connection cable)
- 1 x reusable SpO2 sensors neonate, wrap around type (including connection cable).
- Installation and Training should be given at end-user site.
- User manual with trouble shooting guidance, in English

9. ECG MACHINE FOR NEONATE/INFANT

- **Description of Function:** ECG Machine is a primary equipment to record ECG Signal in various configurations. 12 channels with interpretation is required for recording and analyzing the waveforms with an inbuilt software.
- **Operational Requirements** The ECG Machine should be able to acquire all 12 Leads simultaneously and interpret them.
- **Technical Specifications**
- Should acquire simultaneous 12 lead ECG for both adult and paediatric patients.
- Should have Real time Colour display of ECG waveforms with signal quality indication for each lead.
- Should have Artefact, AC, and low and high pass frequency filters.
- Should have a storage memory of at least 100 ECGs with easy transfer by modem and data card.

- Should have full screen preview of ECG report for quality assessment checks prior to print.
- Should have interpretation facility of the amplitudes, durations and morphologies of ECG waveforms and associated rhythm for adult and paediatric patients.
- Should have alphanumeric Keyboard for patient data Entry. (virtual or hard keys).
- Should have High resolution (200 dpix500dpi on 25 mm/sec speed) digital array A4 size printer.
- Should have report formats of 3 x4; 6 x2, Rhythm for up to 12 selected leads; 12 Lead Extended measurements, 1 minute of continuous waveform data for 1 selected lead.
- Should have battery capacity of at least 30 ECGs or 30 minutes of continuous rhythm recording on single charge.
- Should be able to be connected to HIS /LAN/Wireless LAN.
- Should display ECG on LCD/TFT Display of 640x480 pixel resolution.
- USB Support for Storage on external portable memories.
- Multimode of ECG Storage capability, 150 ECG on Internal Flash Memory.
- System Configuration Accessories, spares and consumables
- ECG Machine 12 Leads with Interpretation - 01
- Patient Cable -02
- Chest Electrodes Adult-(set of six) -02 sets.
- Chest Electrodes Paediatric-(set of six) -02 sets
- Limb Electrodes(set of 4)- 02 sets of Adult and 02 sets of Paediatrics
- Thermal Paper A4 Size for 500 patients
- Environmental factors
- The unit shall be capable of being stored continuously in ambient temperature of 0 - 50deg C and relative humidity of 15-90%
- The unit shall be capable of operating continuously in ambient temperature of 10 - 50deg C and relative humidity of 15-90%
- Shall meet IEC-60601-1-2:2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility or should comply with 89/366/EEC; EMC-directive.
- Power Supply
- Power input to be 220-240VAC, 50Hz fitted with Indian plug
- Standards, Safety and Training

- Should be US FDA or European CE, approved product.
- Electrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements and IEC-60601- 2-25 Safety of Electrocardiograms. (OR EQUIVALENT BIS Standard)
- Documentation
- User Manual in English
- Service manual in English
- List of important spare parts and accessories with their part number and costing.

10. BLOOD GAS ANALYZER MACHINE

S/N	TECHNICAL SPECIFICATION
1	Analysis time should not be more than 90 seconds.
2	System should be based on liquid / gas calibration technology.
3	System should not be a cartridge based system i.e. electrodes should not be in the cartridge system.
4	Should work on whole blood and should have syringe and capillary sampling.
5	Analyzer with memory of storing patient data/result minimum 250 or more.
6	System should be supplied complete with all standard accessories, electrodes & start up kits.
7	Onboard life of reagents should not be less than one month.
8	Power input: 220 VAC + 10%, 50 Hz and a suitable one hr. back up UPS should be supplied along with analyzer. There should be storage facility of data in case of power failure.
9	Maintenance free electrode and the unit should be upgradeability.
10	Measured parameter : It should measure Blood Gas (full parameters) in its addition to measure Electrolytes like Na ⁺ , K ⁺ , Cl ⁻ /CA ⁺⁺ , pH, pO ₂ , pCO ₂ , Haematocrit.
11	Calculated parameters: O ₂ sat, O ₂ CT, Hco ₃ (act), Hco ₃ (-std), ctCo ₂ , BE(b), BE(ecf), pO ₂ (A-a), pO ₂ (a/A), pO ₂ /FiO ₂ , Ca ⁺⁺ (7.4), Anion Gap, pH(T), H ⁺ (T), pCo ₂ (T), pO ₂ (T), pO ₂ (A-a)(T), pO ₂ (a/A)(T), ctHb(est)
12	Sample Type: Whole blood, Dialysate fluid
13	Calibration: a) Automatic or on Demand b) Long Expiry Reagent and Gas canister are available
14	Accessories: Recharger/Downloader and Printer Should be supplied with compatible trolley (SS). Should be supply compatible UPS (600VA).
15	The unit should have European CE or USFDA Approved.

11. SYRINGE PUMP

➤ Essential

- Microprocessor controlled pump capable of propulsion of fluids accurately.
- Syringe compatibility: The pump should work with different brands of syringes and is able to accept syringes with volumes of 10 ml – 50 ml.
- There should be automatic detection of syringe size.
- It should be equipped for detecting correct fixing of syringe.
- Flow rate should be adjustable from 0.1 ml/hr to 1000 ml/hr.
- Flow rate should be adjustable in increments of 0.1 ml/hr.
- Flow rate adjustment should not involve stopping of the existing infusion rate.
- The accuracy of flow rate should be $\pm 2\%$.
- The flow rate should be displayed in ml/ hr. Delivery rate can be calculated automatically by presetting of volume & time. It should also accept values in mg/ hr, $\mu\text{g/ hr}$, mg/ kg/ hr etc. 10. It should be able to deliver bolus dose in automatic/ manual mode.
- Pump should have commonly used drugs library of 40 or more.
- It should work on 200 – 240 VAC, 50 – 60 Hz source and in-built rechargeable battery. 13. Internal battery life should be minimum of 6 hrs.
- Pump should have colour display.
- The following audio and visual alarms should be incorporated:
 - Main changeover to battery indication
 - Occlusion pressure alarm
 - Near empty syringe
 - Low battery
 - Standby alarm
- There should be a method of automatic bolus volume reduction after occlusion release.
- The pump should be waterproof so that fluid should not enter inside the pump in case of accidental spillage.
- The syringe pumps should be capable of standalone functioning as well as being fixed on a frame/platform/stand.
- The pump should be CE certified or US FDA approved.
- Power cord should not be less than 3 meters in length.

12. MOBILE X-RAY MACHINE

TECHNICAL SPECIFICATION
<input type="checkbox"/> The Mobile X – Ray should be on antistatic castors with breaks.
<input type="checkbox"/> Output Power : 3KW or more
<input type="checkbox"/> Mains Compensation : Automatic
<input type="checkbox"/> mA Output Range : 100 ma
<input type="checkbox"/> Frequency : High Frequency - 100khz or more
<input type="checkbox"/> Mas : More than 200
<input type="checkbox"/> Weight : Less than or equal to 120 kg
<input type="checkbox"/> mA range : 10ma to 100ma
<input type="checkbox"/> Collimator Range : +/- 90 degree
<input type="checkbox"/> Focus to floor distance : 2 m or more
<input type="checkbox"/> Duty Cycle : 1:30 or better
<input type="checkbox"/> KV Output range : 40 KV to 100 KV
<input type="checkbox"/> X – Ray Tube : Stationary Anode type with 1.8mm x 1.8mm size or less focal spot size.
<input type="checkbox"/> Console : The digital display should have the interface to adjust & display kV and mAs parameters. It indicates System ON, System OFF, status and fault messages on the kV and mAs area.
<input type="checkbox"/> Cassette Box : 2 Sets of 14x17, 10x12 and 8x10 each
<input type="checkbox"/> Standard Accessories : Having Lead apron to carry Out procedure
<input type="checkbox"/> The equipment should be wheel mounted and light weight for easy mobility and manoeuvrability.
<input type="checkbox"/> Unit should operate on single phase 230 Volt, 15 Amp plug without any external Transformer.
<input type="checkbox"/> Unit should have valid AERB& BIS type approval certificate.
<input type="checkbox"/> Company should have well established after sales service network with 24 x 7 call login facility.
<input type="checkbox"/> X-RAY GENERATOR
<input type="checkbox"/> Type : High frequency 4 KW
<input type="checkbox"/> Max KV : 100
<input type="checkbox"/> Max mA : 100
<input type="checkbox"/> X-RAY TUBE
<input type="checkbox"/> Type : Stationary anode
<input type="checkbox"/> Focal spot : 1.8 x 1.8 mm
<input type="checkbox"/> RADIOGRAPHY
<input type="checkbox"/> KV range : 40 – 100
<input type="checkbox"/> mA range : 10 to 100
<input type="checkbox"/> CONTROL PANEL CONTROL PANEL
<input type="checkbox"/> Digital display of all radiographic parameters
<input type="checkbox"/> Automatic tube over load protection.

TECHNICAL SPECIFICATION
<input type="checkbox"/> MECHANICAL SPECIFICATIONS
<input type="checkbox"/> Counter balanced
<input type="checkbox"/> Articulated tube arm
<input type="checkbox"/> Easy to move and handle
<input type="checkbox"/> Light beam diaphragm collimator.
<input type="checkbox"/> Extendable hand switch with cable for x-ray exposure.
<input type="checkbox"/> Integrated cassette box
<input type="checkbox"/> FEATURES
<input type="checkbox"/> The quoted model and tube should be AERB type approved for usage up to 60mA. Relevant copies of the certificate should be attached with the bid.
<input type="checkbox"/> Should be mounted on heavy duty casters.
<input type="checkbox"/> STANDARD ACCESSORIES
<input type="checkbox"/> Light weight lead apron 0.5mm lead equivalence with thyroid guard – 1no.
<input type="checkbox"/> Light weight latest model cassettes with high speed screen 15x12 – 1 no, 12x10 – 1 no, 10x8 – 1 no.
<input type="checkbox"/> Channel type hanger each size 3 nos.
<input type="checkbox"/> Lead markers R, L, 0-9 and A-Z each 2 sets.
<input type="checkbox"/> Cassette storage box.
<input type="checkbox"/> POWER SUPPLY REQUIREMENTS
<input type="checkbox"/> 230Vac, Single phase, 50/60 Hz.
<input type="checkbox"/> SPECIFICATION OF LEAD APRON.
<input type="checkbox"/> Should be AERB approved.
<input type="checkbox"/> Should be light weight 1mm lead equivalent.
<input type="checkbox"/> Should be hook and loop type (Velcro).
<input type="checkbox"/> Should be supplied along with thyroid guard.
<input type="checkbox"/> MECHANICAL SPECIFICATIONS
<input type="checkbox"/> Should have wheel braking facility.
<input type="checkbox"/> Manufacturer should be certified with ISO 13485: Quality systems – medical devices
<input type="checkbox"/> Preferably the system should have international (FDA/CE/IEC) approval.
<input type="checkbox"/> User manual with trouble shooting guidance, in English
<input type="checkbox"/> Installation and Training should be given at end-user site.

13. LED DOUBLE FILM X-RAY VIEW BOX

- Ultra-thin X ray film illuminator using light
- It should have a thickness of 29 mm
- It should be suitable for viewing 14’’x17’ film
- The LED light must have a life span of more than 1,00,000 hours.
- It should have easy insertion & removal of the film

- It should have homogeneous illumination more than 95% and maximum intensity of over 10,000 LUX.
- It should have an on-off switch along with digital feather touch dimmer and a button to set the intensity
- It should have fully electronic continuous brightness control, with adjustment range of approximately 90%.
- It should have directly connectable to power supply without any external adapter.
- It should have flicker free high frequency light for reduction of eye strain.
- It should have external fuses for protection against power surge.
- 10 step Digital dimmer facility with step up/step down intensity of 400 LUX.
- Facility to switch on only the section where the film needs to be viewed.
- Once intensity set, should not go back to factory setting.

14. **PUMP, SUCTION, PORTABLE, 220V, W/ACCESS.**

- Portable suction pump with 1or 2 litre plastic jar
- Dismantable for easy cleaning, jar autoclavable.
- Shock resistance protects from dropping
- Light, easy to carry and keep clean
- Jar with plastic cover, gasket and overflow valve
- With suction regulator, vacuum gauge
- Suction power: 15 L/min
- Vacuum, max: 600 mmHg
- Power requirement: 220 V/50 Hz
- Power consumption: 100 W
- Device is produced by ISO 9001 certified manufacturer
- Device is safety certified according CE 93/42, FDA 510k or equivalent.
- **Supplied with:**
- 1x set of silicone rubber suction tubing, approx: diam. 10 mm
- 1 x spare set of fuses
- User manual with trouble shooting guidance, in English
- Training and installation at end-user site.

15. **SUCTION APPARATUS (FOOT OPERATED)**

- High performance suction pump for pharyngeal and tracheal suction
- Double acting piston pump provides a combination of large airflow and high vacuum

- See-saw movement of pedal generates suction every time one side of the pedal is depressed
- Pump chassis complete with valve diaphragms, manifold pipe, bottom cover, cylinder with draw link and valve diaphragm, piston O-ring, pedal with retaining springs, aspirating tube with angle
- All parts can be autoclaved at 121°C
- Vacuum, max: 400 mmHg
- Free airflow at two pumping strokes per second, approx: 30 to 40 L/min
- All parts made of high-strength, long-life materials, not requiring specific maintenance or storage
- Transparent polycarbonate collection container capacity, approx: 1 L
- Manifold pipe: polypropylene
- Gasket, O-rings and valve diaphragm: silicone rubber
- Foot pedal: Aluminum
- The equipment should be CE certified.

16. GLUCOMETER WITH 100 DEXTROSTIS

- Should be a hand held meter
- Should require no routine maintenance
- Should have reading range/linearity from 10 to 600 mg/dl
- Should have a maximum reading time of less than 10 seconds
- Should use electrochemical technology
- Should use a minimum blood sample less than 1.5µl
- Should have a LCD display
- Should have measuring unit in mg/dl.
- Should have wide operating temperature
- Should have a minimum memory of 50
- Should have life time replacement offer
- Should have automatic code entry technique
- Battery should be replaceable without using any tools.
- Should have facility to ensure accuracy of measurements.
- Glucometer with 100 Strips.
- Long lasting Battery operated.
- User manual with trouble shooting guidance, in English
- Should be USFDA/CE certified.

17. INFANT METER, PLEXUS, 3½FT/105CM

- Portable baby/infant length-height measuring system
- Measures laying length of neonates and babies
- No need for calibration as all parts have prefixed position
- Reads in centimeters and inches
- Minimum graduation: 1 mm
- Long-lasting hard-wearing ruler/graduation is fully integrated with device
- Measuring slide/wedge glides smoothly and close via ruler, avoiding reading parallax
- Measuring slide/wedge wobbles max 2 mm, over full length
- No sharp edges or corners
- Length, measurement range, approx: 100 cm
- Head/footplate, board and slide/wedge made of quality laminated wood or plastic
- Device is produced by ISO 9001 certified manufacturer.

18. WEIGHING SCALE

- It should be a digital electronic scale
- Should have capacity weighing range of 0 - 20 kg with an accuracy of ± 5 gm
- Weighing unit: Standard display in grams
- Pan size: 630 x 300 mm ± 25 mm
- Pan material: Fibre resistant plastic (pupe coated)
- Display: Bright LED or LCD display for easy viewing
- Should have functions TARE, Auto-HOLD and Automatic switch-off
- Insulation should be Protection Class II approved
- Should be light weight and has a handle for easy transportation
- The scales are only cleaned with normal disinfectants
- Should have operated by battery or power supply
- Battery backup: At least 3 hours
- Should have a measuring rod and a head positioner
- Should be supplied with detachable Baby Measuring Rod with measuring range: 35 – 80 cm with graduation of 1 mm
- Should be ISO and European CE certified
- Original (but not the xerox copy) of the operator and service manual to be provided along with the equipment.
- Rates of spare parts to be quoted separately.

19. DRUM, STERILISING, 165MM DIAMETER

- Drums should be made of full stainless steel (SS) only.
- Size: 165 mm Diameter
- It should round in shape with smooth corners
- Smooth surface and super finished
- Cylindrical container with attached lid and lateral eclipses
- They should have Side-Bottom Holes & Upper-Lower Holes Dressing Drum.
- Made of Stainless steel; used for sterilizing and storing various type of dressings; instruments and surgical requisites in Hospitals and Clinics.
- Dressing Drum, domed top and bottom with sliding removable band and drop down-hasps (stainless steel).
- Device is produced by ISO certified manufacturer.

20. TAPE, MEASURE, 1.5M

- Length should be 1.5 m, measuring tape
- Metal tip finishing at both ends
- Reads both in cm and inch
- Length, 1.5 m/5 ft
- Minimal graduation: 0.5 cm/0.2 inch
- Width, approx: 1.3 cm
- Thickness, approx: 0.36 mm
- Device is produced by ISO certified manufacturer.

21. STETHOSCOPE, BINAURAL, NEONATE

- Double cup neonatal stethoscope
- Chest piece in stainless steel with non-chill plastic rim
- Diaphragm approx: 20 mm
- Sensitivity approx 3.0 dB from 50 to 500 Hz (cardio)
- Sensitivity approx 8.0 dB from 600 Hz to 1500 Hz (pneumo)
- Y tube: treated rubber with large diameter
- Arms: stainless steel or chrome brass, with treated spring for lasting elasticity and comfort
- Removable plastic ear-pieces

- Device is produced by ISO certified manufacturer.
- User manual with trouble shooting guidance, in English.

22. LARYNGOSCOPE SET, NEONATE

- Laryngoscope set with neonate blades
- Constituted of large hollow, cylindrical, slightly ribbed handle and a set of depressors in SS
- Handle is made of either chromium-plated or stainless steel and can be opened at an extremity to insert two alkaline batteries (LR14, size C, 1.5 Volts). The other end has a stud contact which fits the various sizes and types of depressors.
- 2 x curved depressors, Macintosh type No. 1, approx 68 mm lengths with halogen bulb
- 2 x straight depressors, Miller type No. 0, approx 53 mm length with halogen bulb
- Presented in suitable protective plastic box
- Device is produced by ISO certified manufacturer
- Device is safety certified according CE, FDA or equivalent.
- **Supplied with:**
- 2 x spare halogen bulbs
- User manual with trouble shooting guidance
- Supplied with packed bag.

23. RESUSCITATOR, HAND-OPERATED, NEONATE, 250ML

- Resuscitator for manual ventilation of neonates
- Ventilation can be done with ambient air or with oxygen
- Resuscitator can be totally disassembled, is easy to clean, disinfect and sterilize
- All parts can be autoclaved at 120°C (except O2 reserve bag)
- Manufactured from durable high-strength synthetic not requiring special maintenance or storage
- Resuscitator is supplied as a complete set in a box
- Compressible self-refilling ventilation bag, capacity, approx. 250 ml
- With non-re breathing patient valve with pressure limitation
- Intake valve with nipple for O2 tubing
- O2 reserve bag complete, capacity approx.: 800 ml

- 2 Nos of cushioned neonate size masks, translucent of each (Size “0”, approx: 50 mm)
- Device is produced by ISO certified manufacturer
- Device is safety certified according CE, FDA or equivalent.
- **Supplied with:**
- User manual with trouble shooting guidance, in English.

24. RESUSCITATOR, HAND-OPERATED, NEONATE, 500ML

- Resuscitator for manual ventilation of neonates
- Ventilation can be done with ambient air or with oxygen
- Resuscitator can be totally disassembled, is easy to clean, disinfect and sterilize
- All parts can be autoclaved at 120°C (except O2 reserve bag)
- Manufactured from durable high-strength synthetic not requiring special maintenance or storage
- Resuscitator is supplied as a complete set in a box
- Compressible self-refilling ventilation bag, capacity, approx. 500 ml
- With non-re breathing patient valve with pressure limitation
- Intake valve with nipple for O2 tubing
- O2 reserve bag complete, capacity approx.: 2000 ml
- 2 Nos of cushioned neonate size masks, translucent of each (Size “0”, approx: 50 mm)
- Device is produced by ISO certified manufacturer
- Device is safety certified according CE, FDA or equivalent.
- **Supplied with:**
- User manual with trouble shooting guidance, in English.

25. OXYGEN HOOD, SMALL AND MEDIUM, OF EACH, INCLUDING CONNECTING TUBES

- Round shape or oval shape
- 3 x Small size, approx: height 22 cm, diam 25 cm
- 3 x Medium size, approx: height 18 cm, diam 20 cm
- Made of autoclavable polycarbonate
- Trauma free silicone neck, with adjustment flap
- With bilateral oxygen nozzle

- Oxygen tube of 2 m length must be provided with
- Device is produced by ISO certified manufacturer
- Device is safety certified according CE/FDA.
- **Supplied with:**
- 1 x spare set of tubing
- User manual with trouble shooting guidance, in English.

26. KIDNEY TRAY, STAINLESS STEEL, 825ML

- Stainless steel kidney basin
- Capacity, approx: 825 ml
- Austenitic stainless steel, composition: 8 to 10% nickel, 18 to 20% chromium
- Thickness steel: 0.8 mm
- Length, approx: 250 mm
- Width, approx: 140 mm
- Height, approx: 40 mm
- Device is produced by ISO 9001 certified manufacturer.

27. TRAY, DRESSING, SS, 300X200X30MM

- Stainless steel dressing tray
- Rectangular with rounded corners
- Austenitic stainless steel, composition: 8 to 10% nickel, 18 to 20% chromium
- Thickness steel: 0.8 mm
- Length, approx: 300 mm
- Width, approx: 200 mm
- Height, approx: 30 mm
- Device is produced by ISO 9001 certified manufacturer.

28. ECHO MACHINE PORTABLE ULTRASOUND, DOPPLER AND ECHO MACHINE FOR NEONATOLOGY

S/N	TECHNICAL SPECIFICATION
I	Echo Machine Portable Ultrasound, Doppler and Echo Machine for Neonatology
1	General: Portable ultrasonograph, Doppler and Echo machine with Neonatal & Pediatric transducer/probe for cardiac, cranial, abdominal, vascular and neurological assessment.
2	It should be non-invasive & portable

S/N	TECHNICAL SPECIFICATION
3	It should be light weight, sturdy
4	Architecture: All digital broadband with 128 channel
5	Dynamic range up to 165 DB, gray scale 256 shades
7	High resolution monitor with good image quality
8	2D/Velocity/Colour Doppler/M – Mode/PW,CW Doppler, ECG
9	Dual imaging
10	M-mode/Duplex imaging with 3-sweep speed
11	1/2:1/2, 1/3:1/3and full screen option
12	Broadband, multi-frequency, 2X pan/zoom and tissue harmonic imaging with 1-8 focal zones.
13	Image processing for contrast, persistence, dynamic range and gain.
14	Soft key for advance features
15	Delta key for user assigned actions
16	Alphanumeric QWERTY Keyboard
17	Track pad with select key for easy navigation
18	Doppler/M mode controls for angle, steer, scale, baseline, volume and gain
19	Image acquisition keys to review, report, VCR and clip store
21	Store up to 10000 images with 1 GB flashcard
22	RGB output to external LCD display
23	Composite video output to VCR, video printer or LCD display
24	Audio output with integrated speaker
25	Measure: 2D, distance callipers, ellipse for area circumference, Doppler velocity RI and S/D ratio, volume flow calculation, M- mode, distance and time measurement, heart rate calculation, selectable text and body markers, application specific texts by function keys
26	Both neonatal and paediatric phased array transducer/probe with band-width at least 4-8 MHz
28	Quick boot-up time
29	Battery-power and wireless capabilities with internal memory
30	Backlit keyboard
31	Facility for electric data transfer and printer with training kit/CDs
32	Weight less than 7kg (excluding stand)
33	Has neonatal ECHO, brain ultrasound and abdominal ultrasound packages with dedicated probes.
35	Able to store still and video image in common file format such as JPEG, MPEG with hard disc of at least 50GB.
36	Incorporated with software and hardware functionality to wired and wireless transfer and post-examination quantitative study all type of row data on other window, Mac or Linus based systems.
37	Advanced image optimization techniques for high quality imaging.
38	At least 10 inch diagonal high resolution LCD
39	Extremely high frames rates, enhanced color flow and color angio.

S/N	TECHNICAL SPECIFICATION
40	Integrated software package for image data review, analysis, patient archive and reporting capabilities.
42	System operation by power or battery
43	Ac universal power adapter 100-240 VAC, 50-60Hz input,15VDC output
44	Battery backup at least 1 hour
45	Rechargeable battery should be lithium-ion battery
46	Probes:
47	Wide-band multi-frequency phased array probe with bandwidth between 2.0 and 3.6 MHz.
48	Wide-band multi-frequency phased array probe with bandwidth between 5.0 and 11.0 MHz for neonatal echo.
49	Wide-band, multi-frequency micro convex array probe with bandwidth between 3.0 and 11.2 MHz for neonatal head and abdominal examinations.
50	Medical grade color printer:
51	3-lead ECG module compatible with standard ECG leads and electrodes.
52	System should be provided with high quality compact stand with lockable wheels.
53	Onsite physical demonstration/training of the equipment to all the end user with all the requested facilities will be mandatory.
54	The equipment should ensure the supply of consumable and standard accessories for the period of warranty and CMC.
55	Items covered under CMC: Prices of consumables and accessories should be quoted separately in the financial bid for the entire period of warranty and CMC. Company should ensure the supply of consumable and accessories for the period of the warranty and CMC.
56	Documentation:
57	User/Technician/Maintenance manual to be supplied in English
59	General requirement for electrical safety of medical equipment
60	Supplier should have local services facility.
61	The Service provider should have the necessary equipment's recommended by the manufactures for installation and to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.

29. SURGICAL INSTRUMENT SUTURE/ SET

- **Suture instruments set consisting of:**
- 1 x Scissors, Deaver, 140 mm, curved, sharp/blunt
- Surgical operating scissors, model according Deaver
- Curved, with one pointed and one blunt end blade

- Martensitic steel, quenched, magnetic steel (stand mat S0773550)
- 1 x Needle holder, Mayo-Hegar, 180 mm, straight
- Ratchet enables needle to be gripped with varying tightness, model according Mayo-Hegar
- Defined longitudinal groove to prevent deterioration of the needle Jaws with pronounced ridges
- Martensitic steel, quenched, magnetic steel (stand mat S0743600)
- 1 x Forceps, artery, Kocher, 140 mm, straight
- Hemostatic forceps, model according Kocher
- Slightly springy, flexible arms
- Variable setting of the ratchet
- Adjustment of the jaws
- Martensitic steel, quenched, magnetic steel (stand mat S0726000)
- 1 x Scalpel handle, no.4
- Bistoury handle for interchangeable blade
- The number indicates the characteristic of the distal end and therefore the choice of the blade
- Length: approx. 14 cm
- Austenitic steel, non-quenched, non-magnetic (stand mat S0745500)
- 1 x Forceps, tissue, 145 mm, straight
- Straight tissue dissecting forceps
- Slightly springy, flexible arms
- With 1 x 2 teeth
- Good adjustment of the teeth
- Good gripping of the jaws
- Martensitic steel, quenched, magnetic steel (stand mat S0737000)
- 1 x Probe, double-ended, 145 mm
- Double-ended probe/dilator
- Bulbous shape at both ends
- Diameter: 2 mm
- Austenitic steel, non-quenched, non-magnetic (stand mat S0759820)
- Device is produced by ISO certified manufacturer
- Device is safety certified according CE, FDA or equivalent.

30. THERMOMETER, CLINICAL, DIGITAL, 32-43°C

- Digital thermometer Celsius scale with switch to Fahrenheit
- Safe to use, atraumatic, no glass, no mercury
- Measurement range: 32°C to 43°C
- Accurate measurement: +/- 0.10°C between 35°C to 41°C
- Liquid crystal display, easy to read
- Beep sound and switch off
- Water proof for ease of cleaning
- Battery powered
- Low battery indicator
- Device is produced by ISO certified manufacturer
- Device is safety certified according CE, FDA or equivalent
- **Supplied with:**
- 1 x NiCad battery
- User manual with trouble shooting guidance, in English
- Technical manual with maintenance and first line technical intervention instructions, in English
- Training and installation at end-user site.

31. HUB CUTTER, SYRINGE.

- **Material used will have**
- The cutting blade of the cutter will be made of stainless steel.
- The thickness of the blade will not be less than 0.5 mm with one side sharpen to cut minimum of 5,000 cuts.
- All other metal if used in the hub cutter will be made of galvanized carbon steel which will withstand rusting even in rough weather with high humidity coastal region for a minimum of two year (IS 277 of 2003 – galvanized steel sheet specification).
- The spring if used in the hub cutter will be made of steel wire for mechanical spring (oil harden and tempered steel wire)
- The sharp container should be made of Polypropylene (PP) of not less than 4 mm thick and should be white/translucent. The material should be autoclavable plastics, puncture resistant, high drop impact strength, material should be non-toxic and pyrogen free, the material will not wear out with normal usage.

- **Shape:** The shape of the container will be such that the lid is tightened with the body with a twist and cannot be opened by pulling the lid and the body in the opposite direction. The container containing the cut hub along with needle of various size will be $\frac{3}{4}$ full when filled with 200 cut hub with needles.
- **Capacity range:** Able to destroy from hub of AD syringe with needles from 18-28 gauge diameter and from 10-25 mm length and fitted with all types of needle fittings, eg, fixed luer lock, luer ship of snap-on.
- **Resistance to piecing:** Container shall accept 200 cut needles along with the hub when it is $\frac{3}{4}$ th full (filling line). Needles shall not penetrate container walls when filled up to the filling line. The average of forces needed to penetrate samples shall be not less than 15 N.
- **Tamper-proofing:** When contaminated needles are being dropped into the containers, it shall remain sufficiently sealed so as to prevent a hand from entering. Needle should not protrude from the container when the box contains 200 needles with hub.
- **Capacity of the container:** have sufficient capacity to hold 200, 18-28-gauge, and 10-25 mm long needles with hub.
- **Colour:** The container shall be translucent white in color and will allow visual inspection from outer surface to determine when the container is full.
- **Technique:** The device shall be designed to facilitate the location and entry of the needles so that the AD syringe is cut from hub by having.
- A non-critical angle of the needle relative to the entry point. an entry target area which is recessed, concave and diameter is such that it allows all type of AD syringe available in the market to cut from hub.
- **Handling:** Able to be carried in one hand and portable.
- **Durability:** The performance and safety of the device shall not be compromised by Exposure to ambient conditions of +43C, 90% relative humidity for one week
- **Supplied with:**
 - Well Packed in Individual
 - Device is produced by ISO 9001 certified manufacturer

32. MEDICINE STORAGE AND DISPENSING TROLLEY

- Frame work made from Polished SS Steel Material.
- Flat top of SS & at least 6inch deep removable bucket at the bottom

- Should have multiple long drawers to hold drug strips made of polished SS sheet with corrosion free telescopic channels (At least 30 to 40 separate drawers – in about six to eight rows).
- The front of the each drawer should be half covered on which removable medicine label can be pasted and upper half open to see the contents inside.
- Mounted on four 100mm castors (Front Two with brake locking arrangement).
- Approx. Size: 750(L) x 450(W) x 850(H) mm.
- All the Stainless Steel should be seamless conforming to 304 grade/ 16 gauge and polished finished.
- Manufacturer should be ISO and/or 9000:1 and/or 14000:1 and/or 18000:1 and/or BIFMA certified.

33. SS INSTRUMENT TROLLEY RECTANGULAR SHAPE

- SS tubular frame work made of 25.4 mm OD x 18G verticals mounted on 125mm dia. Non rusting castors two with brakes
- Castors to be made of high grade non floor staining synthetic materials with integrated thread guards. Wheel centres having precision ball bearing to run smoothly
- Two stainless steel shelves of 20G thickness with protective railings on 3 sides. The railings shall be made of dia. 10mm SS rod
- Only 304 grade SS should be used for trolley frame work and burr free SS shelves
- SS parts finished with Matt polish and must be supplied in SKD condition
- All process parameters to be as per documented IMS procedures for quality assurance must be compliant to ISO 9001:2008
- Manufacturer should be ISO and/or 9000:1 and/or 14000:1 and/or 18000:1 and/or BIFMA certified.

34. IV SALINE STAND FULLY SS WITH RUST PROOF CASTORS

- I.V. Stand: Overall approx. size: height – 136-244 cm (with telescopic adjustable height)
- Ht adjustable with top knob (not side knob)
- Main Frame: Strong & Sturdy five legged neatly made base mounted on five 2.5cm diameter swiveling ball castors of good quality
- S.S. double hooked I.V. rod & S.S. tube spring loaded.

- All the Stainless Steel should be seamless conforming to 304 grade/ 16 gauge and polished finished.
- Manufacturer should be ISO and/or 9000:1 and/or 14000:1 and/or 18000:1 and/or BIFMA certified.

35. WALL CLOCK WITH SECOND HAND

- Should be reputed brand and make
- Supplied with second hand
- With one battery
- Round or square in shape
- Light weight.

36. DOUBLE DOOR REFRIGERATOR, 250 LTRS APPROX. WITH STAND AND STABILIZER

- Refrigerator should be reputed Make: LG/Samsung/Whirlpool/IFB/Godrej
- Should be reputed brand and make double door refrigerator
- Capacity should be Approx.250 liters
- Should have a freezer compartment
- Should have automatic defrosting facility
- Should have five star electrical energy rating
- System accessories, Spares & Consumable
- Power Supply, power input to be 220-240 VAC, 50 Hz
- Supplied with stand and Stabilizer
- User manual with trouble shooting guidance, in English

37. FULL SS TABLE FOR ABG ETC.,

- Table should be made of heavy duty SS 304 pipe
- With SS 304 top with castor wheels locking facility and it should be vibration free
- Approx. size : 36"L x 24"H height 30"
- Should be ISO certified manufacturer.

38. LAMINAR FLOW SYSTEM

- Microprocessor controlled system
- Type of airflow: Horizontal

- 70% of air should be recirculated to the cabinet work area through HEPA filter and the 30% balance should be exhausted through HEPA. The balance should be dynamic to ensure the 70/30 recirculation/exhaust air.
- The instrument must have HEPA filters on down flow as well as exhaust with an efficacy of 99.99% for particles sized of 0.3 μm. (Calibration certificates along with DOP test report shall have to be submitted at the time of supply of instrument).
- The dimensions of the working chamber should be in the following range:
 - Length : 90-120 cm
 - Width : 40-60 cm
 - Height : 50-80 cm
- The main body and working chamber of the cabinet should be made of stainless steel, rigid and rustproof with removable trays
- The cabinet should have an electrically operated sliding front sash made of safety (UV) glass with a provision for manual operation of the sliding front window. Also, the sliding front sash should have true air and aerosol tight electrical seals.
- Front door: clear transparent sturdy material
- Work chamber should be fitted with a Fluorescent lamp for illumination and should have programmable UV light cycle.
- The unit should have microprocessor control keys with large icons and a large graphical display with provision for the permanent display of the following key cabinet conditions.
 - Inflow and down flow air velocity.
 - Exhaust and recirculated airflow volumes
 - Time and date.
 - Residual lifetime of filters & total time of cabinet operation (optional)
 - Alarm notification in the following situations:
 - Low inflow velocity
 - Low down flow air velocity
 - HEPA filter life
 - Alarms for clogged filters
 - Other malfunction
 - Compatible at a power supply of 220 V, 50Hz
 - Noise level: < 65 dB
 - Basic cabinet should be termite and insect resistant and washable

- Accessories: Manometer, gas inlet, castors
- The cabinet should be with a stand with lockable castors
- Operator and technical manual
- Should be USFDA approved or European CE certified. Certification documents with validity dates should be submitted along with technical bid. In case, no certificate is submitted, the quotation shall be considered invalid.
- The company should give the certificate that the model quoted is the latest and not obsolete; & spares will be easily available for next 5-7 years.

39. AUTOCLAVE (95 LTRS)

- It should be Stainless Steel Double walled construction- with inner and outer made of thick gauge Stainless Steel.
- 45 cm. Dia X 60 cm. Height, 95 liters capacity and 4KW
- Lid is made of thick gauge stainless steel with pressure gauge, 1 steam release valve, and 2 safety valves, and it Should have Foot Lifting arrangement.
- Should be electrically operated, suitable for rapid sterilization under steam pressure.
- Should be of Temperature controlled by PID controller with Time and Purging system PID controller.
- Should provide Solenoid valve system
- Should provide Automatic low water level cut off
- Should have Sterilization under saturated Steam Pressure at 15 PSI
- Should provide S.S. Basket
- Should work on Single Phase supply
- Should be ISI marked product.
- Should be ISO certified manufacturer.

40. NEONATE COOLER (NEONATAL WHOLE BODY COOLING UNIT)

S/N	Technical Specification
I	Neonatal Cooling Device based on advanced savE ® Phase Change Material (PCM) technology
1	Should be able to cool the baby upto 33°C
2	Should use a cascaded system of Phase Change Materials – Combination of savE ® FS-29 PCM and savE ® FS-21 PCM

S/N	Technical Specification
3	Should have specially designed Conduction Mattress for better conduction of heat from the baby to the PCM
4	Insulated Cradle should give enough protection for the PCM to last for the complete 72 hour treatment process
5	Both savE ® FS-29 PCM and savE ® FS-21 PCM should be able to be stored in the bottom part of the refrigerator
6	Both savE ® FS-29 PCM and savE ® FS-21 should take not more than 6-8 hours to freeze in the refrigerator and are then ready for use.
7	The whole device should be able to be placed in the bassinet of a regular radiant warmer which measures at least 66x47 cm
8	Temperature indicator should be provided on the savE ® FS-29 units. This temperature indicator should change color as the temperature changes and the temperature display should be from 23-31°C
9	The PCMs should be able to last at least 3 years from the date of manufacturing.
10	At least Six units of savE ® FS-29 should be provided along with one device. Three units are used at a time and three units are standby to avoid any possible risk.

41. AIR S UNIT (AHU) & AIR CONDITIONING WITH HEPA FILTER WITH POSITIVE AIR PRESSURE FOR (NICU) AND ONE ROOM SHOULD BE WITH NEGATIVE PRESSURE WITH MINIMUM OF 20 TO 30 AIR CHANGES PER HOUR WITH CLASS 10000 STANDARDS.

- Supply, Installation, Testing & Commissioning of Air handling Unit (AHU) System at Neonatal Intensive Care Unit (NICU) at AIIMS Raipur as per below work schedule.
- **Design Parameters**
Standard : As per ISO 14644-1/ HTM/ ASHRAE standards
Class Level : ISO 7 (FOR NICU ROOMS) & ISO 8 for others
Temperature : 23 Deg C (+/- 2)
RH Level : 55 % (+/- 5%)
- **Design consideration:** As per the site CAD drawing of NICU rooms as per ISO class 7 level with terminal HEPA design to enhance the air quality level, multiple stainless steel terminals will be provided based on the bed ratio and return air from the bottom will be taken with riser for proper laminar effect. Other critical rooms will have class level of ISO 8. The existing duct line needs to be removed, because it is not designed as per clean room duct velocity levels. A new duct line needs to be laid

with appropriate return air velocity. We have designed based on return air design and not gone for 100% fresh air design considering the various downsides to it. 100% fresh air design should be considered only where it is mandatory. In ICU room design (as per international standards) it only helps in increasing the energy consumption substantially (even with heat recovery) thereby increasing running costs to a very high level, especially during summer. 100% Fresh air is an old design and with the advent of superior filtration technology, Recirculation design is widely being used. Hepa filters will have very short life if 100% fresh air design is opted, which again will increase the running costs. A precisely designed Recirculation design with exact air change ratio will be a fool proof system and the best option available for ICU Rooms.

- **CRFS** - Factory built package type classified environment system, suitable for aseptic application with built arrangement to produce thermo hygrometric conditions (Temperature, Humidity etc). Also it is suitable to control V.O.C positive pressure. This system is chilled water type with of cooling capacity and free air delivery of 22000 CFM with 150mm of water column air static. Unit made of panels consisting of hot dip G.I casing of thickness of 24 swg thick for both outside and inside layers encasing polyurethane foam insulation having a density of 38-40 Kg/cum factory injected by using injection molding machine. Unit equipped with EU 4, viscous washable synthetic type, bullet expanded inner grooved coil section of Direct Expansion, 6 Row deep for maximum dehumidification, and Aluminium fins with Hydrafillic coating, coil size shall be selected for a maximum face velocity of 500feet/minute. Coils shall have automatic air vents, the vent outlets beings piped to the drain pan with a copper pipe. drain cock with valve with aluminium finned blower sections with DIDW blower with motor and drive assembly, belt driven package (VBelt) with TEFC motor suitable for operations on 415 + 10%, 50 Hz, A.C supply with vibration isolator, fine filter section with EU 7 filter with 300mm thick, dampers to be of extruded aluminium low leakage aero file design. VFD for Continuous operation will be provided.
- **Ducting & Insulation** - Supply, installation, testing and balancing of Air Distribution System consists of factory fabricated Galvanized Iron sheet metal ducting with TDF/TDC flanges complete with supports (anchor fasteners and tie-rods, cradles, angle iron supports, GI bolts and nuts, 4mm thick self-adhesive neoprene rubber gasket, stiffeners, zinc chromate painted angle iron flanges, chipping

and plastering of openings made for duct supports etc., filling the gap with fibre glass wool and with sealant complete as per specification. The rates quoted shall include turning vanes, straightening vanes, splitters, inspection doors probe, inlets with test openings enclosures complete with locking caps, chain, gaskets, insulating plugs, and extension for insulated ductwork etc. Supply and erection of Thermal Insulation - Material shall be FM approved, open cell Nitrile Rubber foam, temperature range from -10°C to +60°C, Class O fire category and as per specification. The Thickness of the insulation material shall be 13/19 mm.

- **HEPA Filter with stainless steel module** : The casing will be made out of Aluminium with Media made out of Micro fibre glass paper and the bonding will be of PU resin. Fins will be Aluminium fins – blended type. Poly ethylene Gasket will be provided. Pressure Drop will be Within 25mm WC . Performance Efficiency will be 99.997% and Grade will be H 13 / H 14 & Penetration - 0.3 sub micron. Terminal module made Stainless steel/Aluminum finish, with bottom grill out of Stainless steel grill with Glossy finish, H 13 HEPA Filter with precise bolt arrangement, will be encased in casing and fixed rigidly into the modular without air leaks. also accessories such as air entry flange connection and D.O.P charging port. Designed for uniform laminar flow across the surface.
- **Electrical Control Panel** : Electrical control panel consist of various sets of controllers and VFD. VFD is a general purpose drive which controls AC motors up to 22 KW with maximum reliability complies with RoHS directives. The drive is easy to install PLC controlled and with automatic motor adaptation technology with high efficiency.
- **Chilled water piping** : Chilled water piping with actuators and other arrangements will be provided as per site requirement with “C” class pipe of dia 65 / 75mm. Butterfly valve, flanges, thermometer, pressure gauge, Airvent, “Y” strainer with necessary fasteners. Thermocole, bitumen & aluminium cladding shall be provided.
- **Negative pressure system for Isolation Room** : The supply air quantum of 800 CFM will be pumped from the AHU unit and negative pressure system of 1000 CFM will be fixed along with terminal grill, carbon & HEPA filter.
- **Testing & Validation**
 - DQ, IQ, OQ & PQ
 - Air velocity test
 - Air changes test

Air qty. check test
Temp. & RH test
DOP test for Hepa filter
Particle count test
Air flow pattern test
Recovery test

42. ONLINE 60 KVA UPS FOR NICU BEDS WITH 30MIN BACKUP

- Supply, Installation, Testing & Commissioning of Online UPS System at Neonatal Intensive Care Unit (NICU) at AIIMS Raipur as per below requirement.
- 60 KVA (384 VDC) 3 Phase Input – 3 Phase Output low iTHD double Conversion microprocessor controlled IGBT based True Online UPS System with 12V/100AH/32Nos SMF Battery with rack and accessories to provide 30minutes back up time.

The 60 kVA 3 PHASE ONLINE UPS SYSTEM: Supply Installation Testing and Commissioning of Trueon line 60KVA UPS system. Inversion shall be Microprocessor controlled, with instantaneous sine wave control using IGBT. UPS shall have standard display features, alarms, safeties, etc Rating : 60kVA Minimum Back up time : Continuous 30 Mins at full load Input Voltage range : A.C 235 V (+15% to -20%), 3 phase Input Frequency : 50 HZ (+/- 3HZ) Power Factor : 0.9 or above THD : less than 5% Ripple Voltage in battery terminal : less than 2% DC Voltage Rectifier shall be full wave type (Shall fully meet the specified input power requirements)

- **Battery** Type : SMFVAh, system minimum
- **Preferred makes:** - UPS: Numeric, APC, Emersson, Hykon, Consul or equivalent Batteries: Exide, Amaron, TATA or equivalent.
- Installation and Training should be given at end-user site.
- User manual with trouble shooting guidance, in English
- Should be ISI marked product.
- Device is produced by ISO certified manufacturer.

43. WASHING MACHINE, LAUNDRY WASHER DRYER, COMBO, 5 KG

- Should be reputed brand and make

- Capacity, approx: 5 to 6 kg
- Should have selection of programmed wash cycles
- Washing machine should be fully automatic with front loaded
- Support feet are height adjustable leveling the device
- Power requirements: 220 V/50 Hz single phase
- Power consumption: 2000 W
- Should be ISI marked product.
- Device is produced by ISO certified manufacturer
- **Supplied with:**
- 1 x set of connection tubing water supply
- 1 x set of connection tubing water drainage
- User manual with trouble shooting guidance, in English
- Technical manual with maintenance and first line technical intervention instructions, in English.
- Training and installation shall be given at end-user site.

44. DECORATORS

- These decorators should be made of up best quality items and used at NICU facility Use Only.
- Dimension will as per the site
- Color: Any.

45. INDUCTION STOVE

- Make: Philips/Butterfly/Prestige/Pigeon/Hawkins
- Type: Induction Cooktop
- Worktop Material:Glass
- Power Consumption: 1800 W
- Color: Black
- Push Button Controls

46. BASIC COOKING UTENSILS

- Spatulas – 4 Nos
- Plates – 6 Nos
- Bowls 6” – 4 Nos
- Cup – 6 Nos
- Spoons – 10 NNos

- Fork – 10 Nos
- Non stick Tawa – 2 Nos
- Containers – 10 Nos
- Other utensils

47. MICROWAVE OVEN

- Make: LG/Samsung/Panasonic/Electrolux
- 20L Capacity: Suitable for bachelors & small families
- Convection: Can be used for baking along with grilling, reheating, defrosting and cooking
- Warranty: 1 year on Product & 3 years on Magnetron & Cavity
- Brand provides a starter kit with this product
- Control: Touch Key Pad (Membrane) is sensitive to touch and easy to clean
- Child Lock: Ensures complete safety especially for homes with small children
- Special features: 24 auto cook menu options

48. REFRIGERATOR 250 LITRES

- Refrigerator should be reputed Make: LG/Samsung/Whirlpool/IFB/Godrej
- Should be reputed brand and make double door refrigerator
- Capacity should be Approx.250 liters
- Should have a freezer compartment
- Should have automatic defrosting facility
- Should have five star electrical energy rating
- System accessories, Spares & Consumable
- Power Supply, power input to be 220-240 VAC, 50 Hz
- Supplied with stand and Stabilizer.

49. RO MACHINE - 8 LTRS

- Purification Technology RO+UV
- Input Voltage AC 230V / 50Hz
- Installation- Wall mounted Wall mounted
- Power consumption in Watts 24W
- Purified water flow rate per hour Min 8 L
- Replacement alarm Yes
- Body material ABS

- Warranty 1 year
- Applicable TDS level in ppm TDS less than 2000ppm and iron less than 0.3ppm
- Purification capacity per hour Min 8 L
- TDS Reduction in % Upto 95%
- UV lamp span in hours 6,000 Hrs
- UV lamp wattage 11W
- Water recovery in % 1:4

50. TELEVISION- 32”

- LED Television should be reputed brand & Make: LG/Samsung/Sony/Philips/ etc.,
- Screen size: 32 inches LED full HD
- Screen resolution: 1920 x 1080
- USB: 2
- HDMI: 2 x HDMI
- Audio out: Digital Audio Out
- Ethernet 1 rear
- Warranty: One year or more
- Should be wall mounted
- Should be supplied with TV remote, wall mounted stand and other accessories required for TV installation, user manuals etc.

51. COMPUTER WITH PRINTER

- **System features**
- **Operating system**
- Windows8
- **Processor family**
- Intel®Core™i3processor
- **Processor**
- Intel® Core™ i3-4340 with Intel HD Graphics 4600 (3.6 GHz, 4 MB cache, 2 cores)
- **Chipset**
- Intel® H87 Express
- **Memory**
- Maximum Memory
- 4 GB 1600 MHz DDR3 SDRAM
- Memory slots

- 4 UDIMM
- **Storage**
- **Internal drive**
- 1TB,SATA,SSHD
- **Optical drive**
- SATA,Super,multi,DVD,writer
- **Expansion features**
- **Ports**
- USB,3.0
- USB,2.0
- PS/2
- VGA
- **Warranty**
- Display TFT or LED
- **Printer Specification**
- It should be LaserJet printer
- Printing method laser
- Type single Function
- Printing output monochrome
- Internal memory 2 MB
- Max print resolution (Mono) 1200 x 1200 dpi
- Duty cycle (monthly, A4) 5000 pages
- First print out time (Mono) 8.5 sec
- Print speed mono 18 ppm
- Duplex print manual
- Media types supported Paper, Envelopes, Transparencies, Labels, Cardstock, Postcards
- Output tray capacity 100 sheets
- Output tray type Face-Down
- Input tray capacity 150 pages
- Media size supported A4
- Power consumption (standby) 1.4 W
- Power requirements 115 to 240 V, 50/60 Hz
- **Supplied with:**

- 1 x spare printer cartridge
- 1 x 100 spare A4 size paper
- User manual with trouble shooting guidance, in English
- Installation and training at end-user site.

52. FUMIGATION DISPENSER

- Should have a consistent particle size generation of 5 – 15 microns or better.
- Should have a maximum through put of 4 meters in a closed room.
- Should have a vortex type design, non-rotating and non-clogging nozzle assembly.
- Should have tough and corrosion resistant power head housing.
- Should have a chemical solution tank of minimum capacity 5 litres.
- Should have a tough and corrosion resistant tank. The bolts, nuts and washers used inside the tank should be stainless steel / brass.
- Should have an easy to clean, detachable and non-corrosive chemical solution tank.
- Should have primary and secondary filtration for the air intake system.
- Should be compatible with wide range of disinfectants.
- Should operate from 200 to 240Vac, 50 Hz input supply.

53. CENTRIFUGE, BENCH TOP, APPROX. UP TO 4200 RPM

- Centrifuges are required in the Laboratory to separate various components of blood for analysis by centrifugal action.
- Should be table top for quick assessment and capable of holding 8 samples at a time
- Should be supplied with swing out hand and rotation up to Approx. 4200 rpm, adjustable in increment of 100.it should have time settable in min. maximum preset 99minutes
- Microprocessor controlled with digital display of speed.
- Digital countdown timer with quick deceleration facility.
- Tube capacity should be with size 15-50ml.
- Centrifuge chamber with metallic total body with glossy painting.
- Body should be made of strong fabricated & corrosion resistant steel.
- Control panel should have display of speed, digital timer, start/stop switch.
- Rotation speed should be regulated by dedicated button switch with dynamic brake for quick de-acceleration.
- Maintenance-free brushless drive motor with exact speed pre selection and display.

- Safety lid-lock feature and emergency lid release
- Should show the digital display of RPM and time
- Motor over heater protection and imbalance shut-off
- It should work on 200/270 volts 50/60Hz, Single phase
- Device is produced by ISO certified manufacturer.
- Device is safety certified according CE or equivalent.
- **Supplied with:**
- 1 x spare set of fuses
- User manual with trouble shooting guidance, in English
- Training and installation at end-user site.

54. BINOCULAR MICROSCOPE

- Body: Should be inter changeable identified binocular body 360° rotatable head
- Eye pieces should be high quality 10x wide angle anti fungus field eye piece
- Objectives: Par focal anti fungus coated 4x 10x 40 and 100x (full immersion) with plan automatic correction
- Optical system should be achromatic objectives
- Stage: Horizontal mechanical stages preferable 140,440mm with fine vernier graduations
- Design with convenient coaxial adjustment for slide manipulation preferably through 30x70mm.
- Sub stage: Abbe condenser focusable continuously variable iris diaphragm
- Illuminator with illumination
- Finish: A durable textured acid resistant finished.
- It should work on 200/270 volts 50/60Hz, Single phase
- Device is produced by ISO certified manufacturer.
- **Supplied with:**
- 1 x spare set of fuses
- User manual with trouble shooting guidance, in English
- Training and installation at end-user site.

55. OPHTHALMOSCOPE:

- The ophthalmoscopes optics produces crisp, clear images of the whole area under examination and minimizes the reflections. 5 different apertures

- Attachment clip with integrated on/off switch. Secure. Switches off automatically when returned to the pocket. Replaceable batteries size aa, or optional rechargeable battery with mini table charger
- 2-piece handle and head. Easy to maintain, flexible. award-winning design. Maximum quality with minimum dimensions.
- Wave Length: Diode laser 532nm (maximum)
- Adjustable laser power: 50 to 2500m W
- Aiming beam through LIO- red diode, aiming beam focus and adjustment knob:
- Adjustable delivered out of Laser Indirect Ophthalmoscope
- Diameter of laser spot: 50 to 500 micro meter
- Should have digital control and continuous wave
- Filters: Cobalt blue, Red Free and yellow
- Lamp: Good illumination bulb and at least 10 extra LIO bulb
- At least one extra optic fiber cable set
- Capable of Exposure times: 0.01-5.00 seconds. automation repeat within :0. 1-1.0 seconds intervals.
- Should include various hand held lenses but must have (20D) and (28D or 30D) aspheric biconvex lens.
- Presented in suitable protective plastic box
- Device is produced by ISO certified manufacturer
- Device is safety certified according CE, FDA or equivalent.
- **Supplied with:**
- 2 x spare bulbs
- User manual with trouble shooting guidance
- Supplied with well packed bag.

56. NEOPUFF MACHINE FOR NEONATE

- The neopuff machine should be Infant T-Piece resuscitator
- This T-piece resuscitator should be an easy to use resuscitator unit suitable for labour and delivery units, postnatal wards, operating rooms, transport, special care baby units and neonatal intensive care units.
- It should be T-piece resuscitator and it would be manually operated, gas-power resuscitator to provide breath at a set flow with consistent peak inspiratory pressure (PIP) and positive end expiratory pressure (PEEP) to infant.

- The T-piece resuscitator device should achieve the controlled target PIP and delivering constant PEEP to help and establish the functional residual capacity (FRC) and should improve the lung volume of the infant patient.
- It should be easy to use and operate and it should not affect the pressures delivered to the patient.
- Machine should be flexible in operation and can accept and deliver oxygen concentration from 21% to 100% coming from flow meter or blender.
- Neopuff Machine should give the accurate pressure delivery to the patient and its fast-acting manometer should provide constant reassurance of mask seal and deliver the PIP and PEEP.
- Machine should have alternate temporary respiratory support consistent PEEP can be delivered to assist with breathing during transport or ventilator circuit changes.
- Machine should be comfortable to hold and easy to carry device where ever it needed
- It should have convenient mounting option for tidy and secure placement
- It should have a option to mount onto a saline pole/wall/rail/infant warmer/infant incubator.
- Machine should have only medical quality manometer for measuring the and display the accurate pressure and fast acting needle, easy to read dial.
- Machine manometer accuracy should be +/- 2.0% of full scale deflection.
- Machine should have the best adjustment rate, faster transition between pressure settings, easy to grip for adjustment of PIP, should allow fine setting for exact pressure.
- It should allow for easy and secure connection of T-piece circuits
- It should have option for humidified T-piece circuits.
- Power requirement: 220 V/50 Hz
- Device is produced by ISO certified manufacturer.
- Device is safety certified according CE, FDA or equivalent.
- Along with the machine supplier should supply all the standard accessories, and 5 no.of disposable circuits and 1 no.of reusable circuit.

57. OXYGEN LOW FLOW METER WITH 0.1L/MIN

- Oxygen low Flow meter, for Neonates and Paediatric, flow can be measured as low 0.1LPM, Chrome-Plated, low flow, with connector.
- This Flow meter has multiple ports, you can leave the cannula, humidifier and nebulizer hooked up to the outlet for easy treatment whenever needed. The housing

and flow tube carry a lifetime warranty and the needle valve carries a five (5) year warranty.

- Features:
- Scale: 0-15 LPM
- Increments:
 - 0.5 LPM from 0.5 to 5 LPM
 - 1 LPM from 5 to 15 LPM
- Accuracy:
 - ± 0.25 LPM from 0.5 to 5 LPM
 - ± 0.5 LPM above 6 to 15 LPM
- Flush Flow: 60-80 LPM

TURNKEY WORK SCHEDULE

S.No	DESCRIPTION	QTY	UNIT
ALUMINUM WORK			
	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)		M.T
	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge : Powder coated aluminium (minimum thickness of powder coating 50 micron)	0.25	MT
	S/F 100mm brass lock for aluminium door including necessary cutting and making good etc. complete	1	EACH
	Providing and fixing aluminium tower bolts (100*10mm) ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :	2	EACH
	Providing and fixing glazing in aluminum door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in- Charge. (Cost of aluminum snap beading shall be paid in basic item): With float glass panes of 8 mm thickness.	27	SQM
	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).	QRO	M.T
	Providing and fixing aluminum tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc. complete as per direction of Engineerin-Charge. Anodized (AC 15) aluminum tubular handle bar	4	EACH
	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete. With twin rubber stopper	2	EACH
	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With Brass cover Plate	2	EACH

S.No	DESCRIPTION	QTY	UNIT
	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/ Brick/ Stone/ wood/ Ceramic/ Gypsum work by providing weather/structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete, complying to ASTM C920, DIN 18540-F & ISO 11600. Upto 20 mm depth and 20 mm width	24	RM
	Providing and fixing 12 mm thick pre laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in paneling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-inCharge. Pre-laminated particle board with decorative lamination on both sides	31	SQM
FLOORING			
	Providing & laying first class full body vitrified ceramic tile of make Kajaria/ Restile/Johnson or equivalent of size 600mmx600mmx 9.5mm or approved size of approved colour (matt finish) in flooring using spacer of required size (2mm-4mm) from endura or equivalent over a bed of cement mortar 1:4 of required thickness to match finished floor level mentioned and to match the neighbouring floor finish and jointed with epoxy grout of approved shade from Bal Endura or equivalent brand all complete as directed.(Basic cost of tile - Rs.85/sft).Any difference in basic price and OHP at the time of approval shall be adjusted for the laid area.No extra shall be payable for forming any pattern in the flooring like border, cut tiles,etc.	6	M.SQ
	Providing and laying 600mm x 600mm or required size from Kajaria/ Restile/Johnson glazed tiles of plain series(Satin finish) in dado set in CM 1:3 with joints so as to form a true & even surface and joints finished neatly with white cement mixed with matching pigments all complete as directed. (Rate should include base plastering with CM 1:5 of required thickness.) The rate shall include cost of providing 6mmx6mm groove in the plastering at top of the tile all complete as directed.(Basic cost of tile - Rs.85/sft).Any difference in basic price and OHP at the time of approval shall be adjusted for the laid area.No extra shall be payable for forming any pattern like border, etc.	24	M.SQ
	Providing and fixing 40 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade. Area of slab over 0.50 sqm	9	M.SQ
MASONRY WORK			
	Half brickwork with locally available best quality table moulded bricks of not less than 50kg/sq.cm crushing strength in CM 1:3 (1 cement 3 sand) and reinforced with two numbers of 6mm dia. M.S rods at every fourth course embedded in cement mortar 1:4 for partitions.		
	In Ground Floor	16	M.SQ
PLASTERING			

S.No	DESCRIPTION	QTY	UNIT
	Prepare surfaces and plaster with CM 1:5(1 cement, 5 sand) ,12mm minimum thick to all interior faces of walls (sponge finish) including RCC surfaces not contiguous to masonry.Necessary internal grooves of size 10mmx10mm shall be carried out as shown/directed by engineer-in-charge.	36	M.SQ
PAINTING			
	Prepare surfaces and paint two coats of plastic emulsion paint of approved colour over two coats of Gypsum punning of 6 mm minimum thick and primer all complete as per manufacturers specifications to all ceilings in all floors.	QRO	M.SQ
	Finishing with oil bound washable Interior Emulsion of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer	64	M.SQ
	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	QRO	M.SQ
	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	QRO	M.SQ
	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	64	M.SQ
	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. Complete	64	M.SQ
	Finishing with Deluxe Multi surface paint system for exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm	QRO	M.SQ
DISMANTLING			
	Dismantling plastered brickwalls in cement mortar including cleaning, stacking the useful materials as directed by engineer-in-charge and dumping the dismantled debris as indicated at site, levelling, consolidating, all complete as directed and disposing the debris away from site all complete as directed.	1	M.CUBE
	Dismantling Aluminium partition including disposing the debris away from site as directed by engineer in charge all complete.	6	SQM
PLUMBING			
	Providing and fixing gun metal gate valve with C.I. wheel of approved quality -25MM	1	M.SQ
	Providing and fixing C.P. brass angle valve for basin mixer and geyserpoints of approved quality conforming to IS:8931 a) 15 mm nominal bore: 15 mm nominal bore.Make:Hindware,Cera,Jaquar etc..	1	EACH
	Providing and fixing PTMT Bottle Trap for Wash basin and sink.Bottle trap 38mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 263gms.		EACH

S.No	DESCRIPTION	QTY	UNIT
	Providing and fixing trap of self cleansing design with screwed down orhinged grating with or without vent arm complete, including cost of cuttingand making good the walls and floors :100 mm inlet and 100 mm outlet	1	EACH
	Providing and fixing square – mouth PVC. Gully trap grade “A” complete with CI grating brick masonry chamber with water tight tight CI cover with frame of 300 x 300mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design	1	EACH
	Providing and fixing white vitreous china pedestal type water closet(European type W.C. pan) with seat and lid, 10 litre low level white P.V.C.flushing cistern, including flush pipe, with manually controlled device(handle lever), conforming to IS : 7231, with all fittings and fixturescomplete, including cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic seat and lid	1	EACH
	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brasspillar taps, 32 mm C.P. brass waste of standard pattern, including paintingof fittings and brackets, cutting and making good the walls whereverrequire:White Vitreous China Wash basin size 630x450 mm with apair of 15 mm C.P. brass pillar taps	5	EACH
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.Concealed work including cutting chases and making good the walls etc		
	20 mm nominal outer dia .Pipes	138	RM
	32 mm nominal outer dia Pipes	148	RM
	50 mm nominal outer dia Pipes	12	RM
	Providing and fixing PVC Waste pipe for sink or wash basin including PVC waste fittings complete.:Semi rigid pipe 32mm dia	2	EACH
	Providing and fixing CP Waste coupling for wash basin and sink of approved quality, colour and make. Waste coupling 31mm of 79mm length and 62mm breadth, weighing not less than 45 gms. Make:Hindware,Jaquar etc..,	2	EACH
	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	2	EACH
	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	6	EACH
	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	6	EACH
	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.	6	EACH

S.No	DESCRIPTION	QTY	UNIT
CURTAIN WORK			
	1. Two range of curtain cloth – Type 1 - II.		
	2. Both for doors, windows and partions.		
	3. Assorted colours plain & prints		
	4. Stitched as per site/ size requirement		
	5. Minor modifications in stitching as per site/ size requirement		
	6. Preferred colour (Brown, Cream, Beige)		
	7. Curtain price (including cloth & curtain rod) to be quoted in Squire metre		
	8. Stitching for each curtain to be absorb in the price of the cloth generally 2 meters.		
	9. Fast colours, water wash		
	10. Fabric density Non Transparent Composition		
	11. Fabric of curtain shall be soft texture, great shading, drape effect and nice doobby.		
	12. The bracket shall be side mounted and front mounted as required		
	13. First rod mount is 3.5 inches from the wall.		
	14. Where curtain used as a partition/ long length, sufficient support from ceiling should be provided to avoid sagging.		
	15. Rate quoted for fully stitched Curtain with top nepha with punch holes after lining bucramreinforced with SS / PVC islets and lower nepha 200mm double turned.		
	Type -I (Surgical Curtain)		
	Curtain fabric weight shall be up to 275-300 ($\pm 5\%$) gsm Composition of fabric shall be polyester yarn I.E. 300 denier fast colour sink age shall be ($\pm 5\%$) Weft and warp shall be polyester / cotton polyester mix	QRO	M.SQ
	Type - II (Window & Door Curtain)		
	Curtain fabric weight shall be up to 250-275 ($\pm 5\%$) gsm Composition of fabric shall be polyester yarn I.E. 300 denier fast colour sink age shall be ($\pm 5\%$) Weft and warp shall be polyester / cotton polyester mix	QRO	M.SQ
	Providing and fixing of vertical/roller blinds width 100 mm regular quantity made from 100 % polyster/Fibre yarn coated with fade resistant polymer to ensure complete opaquety with zero light transmittance, having suitable coating on exterior, including all fixtures and fittings complete in all respect as per design and instruction of Engineer in-charge and as per site conditions. The colour will be approved by the competent authority Make-MAC/VISTA/NOVA or any equivalent make.	58	M.SQ
	Providing and fixing of Single Tap Scrub Station as per the specification as follows 1. Deep sloping basin 2. One High mount spout/taps with elbow operated flow regulator (length of flow regulator approximately 18-24cms) 3. Tap should have provision for manual aeration of water 4. 304 stainless steel polished and ground 5. Wall Mounted Design with provision for back panel wall bracket fixation 6. Provision for Scrub Solution Stand with long handle for pumping 7. Sizes	3	EACH

S.No	DESCRIPTION	QTY	UNIT
	a. Width – Approximately 90-100 cms b. Height of Back Panel of sink – 90 -95 cms c. Height of Sink from Ground – 100-110 cms d. Depth of Sink from Top of the Sink – 40-45 cms e. Height of Tap from the top of the sink – 25-28 cms f. Protrusion of Sink from Wall – 45-50 cms		
	Providing and fixing of Two Tap Scrub Station as per the specification as follows 1. Deep sloping basin 2. Two High mount spout/taps with elbow operated flow regulator (length of flow regulator approximately 18-24cms) 3. Tap should have provision for manual aeration of water 4. 304 stainless steel polished and ground 5. Wall Mounted Design with provision for back panel wall bracket fixation 6. Provision for Scrub Solution Stand with long handle for pumping 7. Sizes a. Width – Approximately 130-140 cms b. Height of Back Panel of sink – 90 -95 cms c. Height of Sink from Ground – 100-110 cms d. Depth of Sink from Top of the Sink – 40-45 cms e. Height of Tap from the top of the sink – 25-28 cms f. Gap Between two taps – 65- 68 cms g. Protrusion of Sink from Wall – 45-50 cms	3	EACH
SIGNAGES & FURNITURES			
	Supply and fixing bilingual signage (Hindi & English) or only English. The signage letters will be made with premium quality vinyl sheet of approved colour, pasted on 5mm thick aluminium composite panel backing. The signage will be either fixed on the wall with the screws & double tape or hanged from the false ceiling with the help of hooks & chains complete work.		
	21”X 4” (84 Sq. inch)	21	EACH
	Providing and fixing LED (1.2 watt each of reputed make such as M/s Samsung or equivalent,) signage of NIB on flat roof top as per the given sketch including designing & fabrication of mild steel structure for holding the signage. The letter will be made in approved colour with acrylic sheet and waterproof LEDs and outdoor type transformers will be used in the signage. The mild steel structure will be anchored with the brickwork by using anchor bolts etc. so as to withstand high pressure wind/ storm, complete work including s/o a M.S. ladder from lower roof top to signage site roof top for working & future maintenance, s/o all T&P etc. required for proper completion of the work. The design of structural steel will be got checked and signed by a structural engineer before execution of the work.	2	SQM

S.No	DESCRIPTION	QTY	UNIT
	<p>Providing & Fixing mid back chair .The seat & back are made up of 12mm thick hotpressed plywood, upholstered with fabric & moulded with Polyurethane foam seat and back covers. The back foam should designed with contoured lumbar support for extra comfort .The seat has extra thick foam on front edge to give extra comfort.Mid back size 475 mm Width x 580 mm Height mm. And seat size 470 mm Width x 480 mm The polyurethane foam should be moulded with density = 45 kg/m³ and hardness = 16 +/- 2 kg on Hampden machine at 25% compression .Armrest are injection moulded from black copolymer polypropylene. The mechanism should be fixed 360 degree revolving type,Upright position locking, tilt tension adjustment, seat back tilting ratio 1:3. The pneumatic height adjustment has an adjustment stroke of 12 cm. The pedestal should be injection moulded in black 33 % glass filled in nylon 66 with 5 nos twin wheel castors. The pedestal should be 66.3 cm pitch-center diameter.</p>	18	EACH
	<p>Supplying and fixing of Three Seater Waiting Area Visitor Chairs · Non-Magnetic SS perforated sheet seat and back shell made of high quality steel makes it strong and durable. · 1608mm (L)X 695 (H) X 555 (D). Legs and Armrests are made of cold rolled steel and are chrome plated for long life. Armrest and legs are anti rust and anti scratch.</p>	2	EACH
	<p>Supply Of Furniture Items:-Sofa Set Five Seater L Shape Without Arm Rest, Size: 3150MM X 2750 MM, Made Of 32-40 Density, Sleepwell Foam And Desired Fabric Upholestry As Per Attached Specification. Make: Godrej/Surya Interior/Geeken/Featherlite, Executive Chairs: High Back, Centre Tilt Syncro, Nylon Pedestal, Pp Fixed Arms. Size: 99.5-101.5H X 78D X 78Wcms And Seat Height- 41.5-53.5 Cms. Make: Godraj Or Suriya Interior Or Durian Or Geeken Or Featherlite, Executive Table: Wooden Top With Eru Square Tube Under Structure With Option Of Three Drawer Unit One Side. Size: 1650 X 900 X 728 Mm. Model: Godraj Or Surya Interior Or Geeken Or Durian.</p>	1	EACH
	<p>Providing and Supplying table of size 1350W x 750 D x 750H, whose work surface is made of 18mm thick. Pre Laminated Particle Board (PLB) All work surface edges are duly sealed with 2mm thick PVC Edge banding. The modesty panel is made of 18mm thick. Pre Laminated Particle Board (PLB) All work surface edges are duly sealed with 2mm thick PVC Edge banding. The rectangular frame is fabricated component in 1.2mm thick CRCA (IS:513), Finish: Powder coated (Epoxy polyester). The leg is Fabricated component in 38mm x25mm x1.2mm thick MS ERW Tube (IS:7138), Finish: Powder coat (Epoxy polyester).The leveler glide for leg is Nylon 6 & MS Bolt. The shell and drawer tray are made of 0.6mm thick CRCA (IS:513), Finish: Powder coat (Epoxy polyester).The drawer front is 0.8mm thick CRCA (IS:513), Finish: Powder coat (Epoxy polyester) and frame assembly is 1.2mm thick CRCA (IS:513), Finish: Powder coat (Epoxy polyester).</p>	4	EACH
	<p>Providing and Supplying shoe rack of size 1175W x 1175 H x 375 D, whose work surface is made of 25mm thick. Pre Laminated Particle Board (PLB) OR Engineered Wood All work surface edges are duly sealed with 2mm thick PVC Edge banding. The modesty panel is made of 18mm thick. Pre Laminated Particle Board (PLB) All work surface edges are duly sealed with 2mm thick PVC Edge banding. Powder coat (Epoxy polyester). Brand: Evok OR Equivelent Assembly: Carpenter Assembly Dimensions: 1175W x 1175 H x 375 D Primary Material: Engineered Wood Room Type: Living Room</p>	1	EACH

S.No	DESCRIPTION	QTY	UNIT
	Providing & Fixing Sofa-2 seater. Size: 1320 mm (W) x 835 mm (D) x 690 mm (H) Seat Height from ground 415 mm. Frame is made up of Tropical Solid Wood with synthetic leather Upholstery, Seat Foam : Polyurethane Foam with recron layer. Foam Density : 18 kg/ cubic cm. Back Foam : Polyurethane Foam with silicon fill at arms. Foam Density : 22 kg/cubic cm S-Spring webbing. The Sofa is based on wooden legs	QRO	EACH
	Providing & Fixing HIGH back executive chair .The seat & back are made up of 12mm thick hotpressed plywood, upholstered with fabric & moulded with Polyurethane foam seat and back covers. The back foam should be designed with contoured lumbar support for extra comfort .The seat has extra thick foam on front edge to give extra comfort. Mid back size 475 mm Width x 580 mm Height mm. And seat size 470 mm Width x 480 mm The polyurethane foam should be moulded with density = 45 kg/m ³ and hardness = 16 +/2 kg on Hampden machine at 25% compression .Armrest are injection moulded from black copolymer polypropylene. The mechanism should be fixed 360 degree revolving type, Upright position locking, tilt tension adjustment, seat back tilting ratio 1:3. The pneumatic height adjustment has an adjustment stroke of 12 cm. The pedestal should be injection moulded in black 33 % glass filled in nylon 66 with 5 nos twin wheel castors. The pedestal should be 66.3 cm pitch-center diameter.	5	EACH
	Providing and supplying and fixing wooden cupboard with drawers (12no.) Specifications: 19mm commercial ply with ISI brand, neem core, inside and outside laminate finish with heavy duty telescopic drawer channel. Load for each drawer channel will be 50Kg Size: 2400mm length/600mm depth /900mm height	2	EACH
	Providing and supplying and fixing wooden cupboard with drawers (8no.) Specifications: 19mm commercial ply with ISI brand, neem core, inside and outside laminate finish with heavy duty telescopic drawer channel. Load for each drawer channel will be 50Kg Size: 1800mm length/600mm depth /1800mm height	8	EACH
	Supply of the FEATHERLITE Versaline Executive Table as per the Featherlite specifications . 1.V-MT 1890, W 1800 x D 900 x H 750 2. V-ST 1245 (LH & RH), W 1200 x D 450 x H 750 and 3. V-CZ, W 1200 x D 450 x H 750	1	EACH
ANTISTATIC FLOORING & COVING			
	Supply installation testing & commissioning (SITC) of PVC coving D 50 with required aluminium / PVC back supports with application of clear sealant to the lips of the coving, complete with all necessary hardware, accessories, fittings and fixtures, as per description in individual items, technical specifications, drawings and instructions of the Engineer-Incharge	142	RM
	PVC 3D corner covings with back supports as required and application of clear sealants to all joints, complete with all necessary hardware, accessories, fittings and fixtures, as per description in individual items, technical specifications, drawings and instructions of the Engineer-Incharge.	86	NOS
	Providing and laying 13 mm thick antistatic/conductive vinyl flooring of make Marvel Vinyl/ Electra plus or equivalent of approved quality and colour conforming to the IS: 3462/ 1986 on the finished concrete or terrazzo tiles flooring or any hard surface with necessary approved adhesive for laying antistatic vinyl sheet/roll including cleaning the floor before and after laying of Vinyl flooring and providing thin copper strip of size about 20.00 x 0.20 mm along the periphery of room and below each joint of two sheets wherever directed with copper screws/ rivets @600 mm c/c .Two ends of copper strips	132	M.SQ

S.No	DESCRIPTION	QTY	UNIT
	(terminals) to be fixed to wall about 300 mm height for earthing of antistatic flooring all complete as per the direction of Engineer-in-charge.(NOTE any deduction beyond 0.5 Sqm will be deducted from the measurement)		
FALSE CEILING & CLADDING			
	Installation and commissioning of Sliding/Swing, Automatic hermetically sealing type of double leaf door of size 2400 x 2400 mm having high density particle board cores, high pressure laminated faced on both sides, viewing window 300 x 300 mm and consisting of all fitting accessories and automation system comprising of double leaf sliding/Swing door actuator with built in photocells. Clear opening:- 2400 mm X 2400 mm, A pair of microwave radar and accessories i.e. Electromechanical lock with manual release device. Digital programmer switch, Back up battery, DMCS Software, Central rabbet seal for sliding PUF Panels all complete including GST, Freight etc. as per instruction of Engineer Incharge and Installation of Automatic motorized double leaf sliding/Swing door made of high density particle board cores, high pressure laminated faced on both sides consisting of all fitting accessories (Labour charges)	2	EACH
	Installation and commissioning of Sliding/Swing, Automatic hermetically sealing type of single leaf door of size 1200 x 2100 mm having high density particle board cores, high pressure laminated faced on both sides, viewing window 300 x 300 mm and consisting of all fitting accessories and automation system comprising of single leaf sliding/Swing door actuator with built in photocells. Clear opening:- 1200 mm X 2100 mm, A pair of microwave radar and accessories i.e. Electromechanical lock with manual release device. Digital programmer switch, Back up battery, DMCS Software, Central rabbet seal for sliding PUF Panels all complete including GST, Freight etc. as per instruction of Engineer Incharge and Installation of Automatic motorized Single leaf sliding/Swing door made of high density particle board cores, high pressure laminated faced on both sides consisting of all fitting accessories (Labour charges)	2	EACH
	Removing and fixing in position of Existing false ceiling in armstrong 600 x 600 x 15/16 mm Dune Supreme RH 99 Prima tile with SILLHOUT Groove type FINE FISSURED RIGHT ANGLE EDGE TILES WITH ARMSTRONG SELECT (WHITE) 15 MM EXPOSED GRID frame work with microlok as specified by Armstrong Co. with suspenders wherever required. Making necessary framework for A.C. ducting, if any and necessary cutouts for diffusers and light fittings, taping and finishing to proper line & level, including making grooves and trap doors for A.C. unit in 18 mm thick M.R. Grade Plywood with Stainless steel hinges & locks with moulding 1" x 1" for edges including finishing with White PlasticEmulsion Paint etc. complete in all respects. (Note:- Only the plan area will be measured for payment. No extra payment will be ,made for cutouts, grooves, mouldings etc.).	418	M.SQ
	MODULAR CEILING PANELS - 50MM thick & Aluminium Ceiling Grid		

S.No	DESCRIPTION	QTY	UNIT
	<p>Supply installation testing & commissioning (SITC) of the Modular False Ceiling System shall comprise of ceiling panels of double skin type 50mm thick, sandwiched with selfextinguishing quality PUF of density not less than 38kg / cum the inner and outer skin shall be of powder coated steel sheet, the thickness of inner skin and outer skin of the panel shall not less than 0.8mm the powder coated steel sheet shall be hot dip galvanized with zinc coating not less than 180gm/sqm both side of the GI sheet used. The false ceiling system shall also include ceiling grid system consisting of T-grid of extruded aluminum anodized surface, wall angle, suspender rod, turnbuckle, nuts, bolts, anchor fasteners etc., as required for fixing the panels, & HEPA filter frame, ceiling grid configuration length and width shall be suitable for fixing ceiling blanks, HEPA module, light fixtures etc. All the suspended material shall be galvanized finish. The ceiling grid system shall be suitable for walkable type false ceiling.the vertical panels to be from false ceiling till the true concrete ceiling. Fire rating - class O and colored approved by HLL. IMPORTANT NOTE: The contractor to take utmost care for tranport,shifting and erecting complete with all necessary hardware, accessories, fittings and fixtures, as per description in individual items, technical specifications, drawings and instructions of the Engineer-Incharge.Note:Necessary cutopens to be made for service outlets and finished after passing the service outlets.</p>	247	M.SQ

Sl.No	Description of work	Unit	Qty
1	Point wiring in PVC conduit with modular type switch.		
	Wiring for light point/fan point/exhaust fan point /call bell point with 1.5 sq mm FR PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit, with modular switch, modular plate, suitable PVC box and earthing the point with 1.5 sq.mm FR PVC insulated copper conductor single core cable etc as required.		
	Group C	Point	40
2	Wiring through PVC conduit		
	Wiring for circuit/submain wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.		
a	2X1.5 sq.mm + 1X1.5 sq.mm earth wire	Metre	575
b	2X2.5 sq.mm + 1 X2.5 sq mm earth wire	Metre	2850
c	2X4 sq.mm + 1X4 sq.mm earth wire	Metre	2650
3	A/C point		
	S/F 20A SPN MCB industrial socket outlet: Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Point	0
4	Modular type blanking plate:		
	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	20
5	Modular boxes, bases & cover plate:		
	Supplying and fixing following size/modules, PVC box along with modular base & cover plate for modular switches in recess etc as required.		
a	2 module	Each	5
b	3 module	Each	50
c	6 module	Each	100
d	8 module	Each	4
6	Modular type switch/socket:		
	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required.		
a	5/6 Amps switch	Each	235
b	3 pin 5/6 Amp socket outlet	Each	235
c	15/16 Amps switch	Each	50
d	6pin 15/16 Amps (universal) socket outlet	Each	50
e	Telephone socket outlet	Each	6
7	Telephone wiring in existing conduit:		

Sl.No	Description of work	Unit	Qty
	Supplying and drawing following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.		
a	2 Pair	Metre	190
8	S/F PVC conduit:		
	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.		
a	20 mm	Metre	250
b	32 mm	Metre	190
9	ITC Fluorescent fitting directly on surface: Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	26
9.1	ITC Ceiling fan: Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable etc. as required.	Each	0
10	CABLE LAYING		
	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1kV grade of following size clamped on wall surface with 1mm thick saddles as required complete.		
a	From VDB to LDB		
	4X16 sq.mm	Metre	25
b	From VDB to PDB		
	4X25 sq.mm	Metre	70
c	From DG to VDB		
	3.5X50 sq.mm	Metre	75
11	END TERMINATION		
	Supply and making end termination with brass compression gland, earth clip and aluminium lugs for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable fo 1.1KV grade as required.		
a	4X16 sq.mm	Each	2
b	4X25 sq.mm	Each	10
c	3.5X50 sq.mm	Each	6

Sl.No	Description of work	Unit	Qty
12	Supply and installation of 20W recess mounted, decorative Soft lite luminaire, powder coated CRCA housing complete with all electrical accessories like electronic ballast, lamp holder, 20W LED etc complete with all mounting accessories like chain, anchor fastner etc as required. (Make Crompton,Havells)	Each	15
13	Supplying and fixing PVC angle batten/batten holder with 12W LED, including connection as required.	Each	3
14	Supply of 1x28W flourescent tube fitting sleek with decorative end cap, powder coated CRCA steel channel complete with all electrical accessories like electronic ballast, lamp holder, 28W T5 lamp etc complete as required. (Philips TMS 540 HF / Wipro WRF 80128 SG / GE DMS 28 N N)	Each	3
15	Supply & installation of 1x9 watts recess mounted down light fixture, with aluminium reflector, CRCA sheet housing, complete with all accessories like ballast, 9W LED lamp etc complete as required.	Each	18
16	Supply and installation of Ceiling fan with its all accessories(Make Havells/bajaj/usha)	Each	0
17	S/F Enclosure for UPS		
	Supplying and fixing following way, three pole and neutral, sheet steel, Enclosure 415 volts, on surface/recess.	Each	2
	100A/25KV MCCB	Each	2
17.A	S/F Vertical Type TP MCB DB:		
	Supplying and fixing following way, three pole and neutral, sheet steel, Vertical MCB distribution board, 415 volts, on surface/recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatised and powder painted including earthing etc. as required (with provision for isolator as incomer) (Make: Legrand/Havells/HPL)		
	4 way, double door	Each	2.00
17.1	S/F of FP Isolators		
	Supplying and fixing following rating, four pole, (three phase and neutral) 415 volts isolators in the existing Vertical DB as incomer complete with connections, testing and commissioning etc as required. (Make: Legrand/Havells/HPL)		
	63/100 A, 4P isolator	Each	2.00
17.2	S/F of TP MCB		
	Supplying and fixing 6 amps to 63 amps rating, 415 Volts, "C" series, miniature cirucuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc as required. (Make: Legrand/Havells/HPL)		
	32A TP MCB	Each	2.00
	63A TP MCB	Each	5.00

Sl.No	Description of work	Unit	Qty
18	S/F of TPN MCB PDB		
	Supplying and fixing following way, three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/recess, complete with tinned copper bus bar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatised and powder painted including earthing etc. as required (But without MCB/ RCBO/isolator) (Make: Legrand/Havells/HPL)		
	12 way Double door, horizontal type.	Each	4.00
18.1	S/F of TPN RCBO		
	Supplying and fixing following rating, four pole, (three phase and neutral) 415 volts RCBO, having a sensitivity current upto 100/300 milliamperes in the existing MCB PDB complete with connections, testing and commissioning etc. as required. (Make: Legrand/Havells/HPL)		
	63 A 4P RCBO 100mA	Each	4.00
18.2	S/F of SP MCB		
	Supplying and fixing 6 amps to 32 amps rating, 240 Volts, "C" series, miniature circuit breaker suitable for power loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc as required. (Make: Legrand/Havells/HPL)		
	15A SP MCB	Each	120.00
19	TPN MCB LDB		
	Supplying and fixing following way, three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/recess, complete with tinned copper bus bar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatised and powder painted including earthing etc as required(But without MCB/RCBO /isolator) (Make:Legrand/Havells/ HPL)		
	8 way (4+12), double door	Each	2.00
19.1	S/F of TPN RCBO		
	Supplying and fixing following rating, four pole, (three phase and neutral) 415 volts RCBO, having a sensitivity current upto 30 milliamperes in the existing MCB LDB complete with connections, testing and commissioning etc. as required. (Make: Legrand/Havells/HPL)		
	32/40 A 4P RCBO 30mA	Each	2.00
19.2	S/F of SP MCB		
	Supplying and fixing 6 amps to 10 amps rating, 240 Volts, "C" series, miniature circuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc as required. (Make: Legrand/Havells/HPL)		
	6/10A SP MCB	Each	18
20	CABLE SUPPLY		

Sl.No	Description of work	Unit	Qty
	Supplying the following PVC insulated and PVC sheathed/XLPE power COPPER cable of 1.1 KV grade as per CPWD standards as required. (Make:Havells/ Glostar/Nicco)		
a	4X10 sq.mm	Metre	25
b	3.5X25 sq.mm	Metre	70
c	3.5X50 sq.mm	Metre	75
21	Pipe earthing with G.I. earth pipe 2.5 metre, long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt) as required complete.	Set	2
22	Supplying and laying 6 SWG Copper wire on, surface or in recess for loop earthing along with existing surface/recessed conduit/submain wiring/ cable as required.	Metre	40
23	Supplying and laying 10 SWG Copper wire on, surface or in recess for loop earthing along with existing surface/recessed conduit/submain wiring/ cable as required.	Metre	160
24	WORK COMPLETION		
24.1	Leading, Positioning, Installation, testing and commissioning of 20-25 kVA DG set with all its accessories	LS	0
24.2	TESTING CT & ENERGY METER	LS	0
24.2	Preparation of all drawings submitting and getting approval from Electrical Inspectorate, submitting of Completion certificates and arranging inspection, getting sanction and energisation certificates from Electrical Inspectorate & OEB, obtaining power allocation & power connection etc. for commissioning of the whole installation in the premises. all statutory payments will be reimbursed on production of the original receipts. (Finding the exact Feeder to tap power is under the scope of Contractor)	LS	0
25	Miscellaneous Items		
25.1	Miscellaneous electrical work, removing of existing conduits and interconnections of light,6A socket/16A socket/A/C point from existing DB	LS	0
26	Supply and pointing exhaust fan shutter type white colour-9"/10"(Make Havells/Bajaj/Almonard)	Each	0
27	Supply and Fixing of Calling bell with its all accessories	Each	3

Section – VII
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 with e mail address.
 - b. Telephone number
 - c. Fax number
 - d. E-mail

- 02 Quality control arrangement details
 - a. For final product evaluation

- 03 Test certificate held
 - a . Type test
 - b . BIS/ISO certification
 - c . Any other

Signature and seal of the Tenderer

Section – VIII
Qualification Criteria

Sl. No.	Minimum Eligibility Criteria	Narrations
1	Authority to tender	The Tenderer must be a Manufacturer or Authorized Agent/dealer/Distributor or Consortium partner.
2	Entirety	The tenderer shall quote for all items in the list of requirements, if any of the item not quoted then their bid will be treated as non responsive.
3	Experience	<i>The tenderer shall have successfully established atleast 1 NICU facility on turnkey basis during last three years prior the date of Tender opening with similar equipment performing similar functions and meeting major specification parameters of the quoted item, which is functioning satisfactorily in India.</i>
4	Financial capability	The annual sales turnover for the bidder should be minimum of Rs. 3 Crore in any of the last 3 financial years: During the year (2015-2016 to 2017-2018), and it should be certified by the chartered accountants. by Chartered Accountant shall be enclosed– Proforma ‘A’- I
5	Responsiveness to List of Equipments	The items quoted shall be responsive to the requirements in the List of Equipments in the Tender.

Note

1. In support of 3, the Tenderer shall furnish Performance statement in the enclosed Proforma ‘A’ II (SECTION- IX) duly signed by the Purchaser
2. 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 VII.
3. 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.
4. 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.

**Section – IX A
TENDER FORM**

Date _____

To

General Manager (Materials),
HLL Lifecare Limited,
Akkulam Factory, Sreekariam PO,
Thiruvananthapuram – 17.
Phone +91 471 244 5930, Fax +91 471 244 5935
Email: hcdcmo@lifecarehll.com

TENDER 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 of _____ (total tender amount in figures and words), as shown in the price schedule(s), attached herewith and 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 - IV – “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, 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

PROFORMA 'A' I

Name & Address of
Tenderer :

Whether Manufacturer
or agent :

Financial Data	15-16	16-17	17-18	Average annual turnover for last 3 years
----------------	-------	-------	-------	--

Annual Turn over

Gross Profit/Loss

Whether attached the relevant
Pages of Balance sheet and
Profit and Loss A/c duly certified
By Chartered Accountant

Signature and stamp of Chartered Accountant

Signature of Tenderer with stamp

PROFORMA 'A' II (Documentary proof for Proforma 'A')
PROFORMA FOR PERFORMANCE STATEMENT

(For the period of last three years)

Tender Reference No. : _____

Date of opening : _____

Order cross reference No. : _____

Name and address of Purchaser : _____

Country of origin, Name and address
of the manufacturer/Tenderer : _____

Order placed by (full address of Purchaser)	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
				As per contract	Actual		
1	2	3	4	5	6	7	8

Date:

Signature and seal of the Purchaser

NB: Satisfactory performance certificate from clients to be enclosed

Section – IXB
TENDER FORM (for price bid)

Date _____

To

General Manager (Materials),
HLL Lifecare Limited,
Akkulam Factory, Sreekariam PO,
Thiruvananthapuram – 17.
Phone +91 471 244 5930, Fax +91 471 244 5935
Email: hcdcmo@lifecarehll.com

Tender 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 of _____ (total tender amount in figures and words), as shown in the price schedule(s), attached herewith and 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 - IV – “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 – “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 – X PRICE SCHEDULE (A)

A) PRICE SCHEDULE FOR EQUIPMENTS TO NICU AT AIIMS, CHATTISGARH

SI No	Brief Description of Goods	Brand / Model	Make / Country of Origin	Qty	Price per unit (Rs.)						Total Price (at Consignee Site) basis (Rs.) 4 x 5(f)					
					Basic Rate Per Unit	GST		Freight & Insurance & Delivery at Destination		Service charges, if any, specify		Other charges, if any, specify	Unit Price (at Consignee Site) bas			
						(a)	(b)		€					(d)	€	(f) =a+b+c+d+e
							%	Amt	%				Amt			
1	Open care system: Radiant warmer			3												
2	Wall mounted Radiant warmer			12												
3	LED Phototherapy unit, detachable type			6												
4	Neonatal Ventilator			2												
5	CPAP Machine			5												
6	HHNFC (Heated Humidifier)			1												
7	Multiparamonitor - High End			2												
8	Multiparamonitor - Low End			15												
9	ECG Machine			1												
10	Blood Gas Analyser			1												
11	Syringe pump, 10,20,50 ml, single phase			50												
12	Mobile X - Ray machine			1												

1	2	3	4	5								6	
SI No	Brief Description of Goods	Brand / Model	Make / Country of Origin	Qty	Price per unit (Rs.)								Total Price (at Consignee Site) basis (Rs.) 4 x 5(f)
					Basic Rate Per Unit	GST		Freight & Insurance & Delivery at Destination		Service charges, if any, specify	Other charges, if any, specify	Unit Price (at Consignee Site) bas	
						(a)	(b)		€		(d)	€	
	%	Amt	%	Amt									
13	X - Ray Viewing box			2									
14	Pump, suction, portable, 220V, w/access.			1									
15	Pump, suction, foot-operated			1									
16	Glucometer with 100 dextrostix			6									
17	Infantometer, Plexi, 3½ft/105cm			2									
18	Scale, baby, electronic, 10 kg <5g>			3									
19	Drum,sterilising,165mm diameter			9									
20	Tape, measure, vinyl-coated, 1.5m E2			21									
21	Stethoscope, binaural, neonate			21									
22	Laryngoscope set, neonate			15									
23	Resuscitator, hand-operated, neonate, 250ml			5									
24	Resuscitator, hand-operated, neonate, 500 ml			10									
25	Oxygen hood Small & Medium each 1, including connecting tubes			10									

1	2	3	4	5								6	
SI No	Brief Description of Goods	Brand / Model	Make / Country of Origin	Qty	Price per unit (Rs.)								Total Price (at Consignee Site) basis (Rs.) 4 x 5(f)
					Basic Rate Per Unit	GST		Freight & Insurance & Delivery at Destination		Service charges, if any, specify	Other charges, if any, specify	Unit Price (at Consignee Site) bas	
						(a)	(b)	(c)	(d)	(e)	(f) =a+b+c+d+e		
	%	Amt	%	Amt		€							
26	Basin, kidney, stainless steel, 825ml			21									
27	Tray,dressing,SS,300x200x 30mm			15									
28	Echo Machine			1									
29	Surgical instrument. suture/SET			5									
30	Thermometer,clinical,digital ,32-43°C			21									
31	Hub cutter, Syringe			6									
32	Medicine Storage and Dispensing Trolley			2									
33	Instrument Trolley full SS			3									
34	Stand infusion, double hook on casters			6									
35	Wall Clock with Second hand			12									
36	Double door Refrigerator 250 Ltrs with stand and stabilizer			2									
37	Fully SS tables for ABG / Baby weighing scales.			4									
38	Laminar Air flow			1									

1 SI No	2 Brief Description of Goods	3 Brand / Model	4 Make / Country of Origin	Qty	5 Price per unit (Rs.)						6 Total Price (at Consignee Site) basis (Rs.) 4 x 5(f)		
					Basic Rate Per Unit	GST		Freight & Insurance & Delivery at Destination		Service charges, if any, specify		Other charges, if any, specify	Unit Price (at Consignee Site) bas
						(a)	%	Amt	%	Amt		(d)	€
39	Autoclave, steam, bench top, 95L, electrical			1									
40	Neonate Cooler (Mira credile)			1									
41	Air Conditioning with (AHU) with HEPA filter			1									
42	Online UPS for all the NICU beds with 30min backup -			1									
43	Washing Machine			1									
44	Dress Hangers			6									
45	Decorators			1									
46	Induction Stove			1									
47	Basic Utensils			1									
48	Microwave Oven			1									
49	Refrigerator			1									
50	RO Machine - 8 Ltrs			1									
51	Television - 32"			1									
52	Computer with Printer			1									
53	Fumigation Dispenser			1									

1 SI No	2 Brief Description of Goods	3 Brand / Model	4 Make / Country of Origin	Qty	5 Price per unit (Rs.)						6 Total Price (at Consignee Site) basis (Rs.) 4 x 5(f)		
					Basic Rate Per Unit	GST		Freight & Insurance & Delivery at Destination		Service charges, if any, specify		Other charges, if any, specify	Unit Price (at Consignee Site) bas
						(a)	%	Amt	%	Amt		(d)	€
54	Centrifuge			1									
55	Binocular Microscope			1									
56	Ophthalmoscope			2									
57	Neopuff			1									
58	Oxygen Low Flow Meter with 0.1L/min			15									
59	Civil & Electrical works			1									
	Total												

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. Successful tenderer shall execute the contract with HLL as per Section XIV.
3. The charges for CAMC after warranty shall be quoted separately as per Section – X – Price Schedule (B)
4. This Rate contract shall be valid initially for a period of One year, extendable for another 6 months at the discretion of HLL

Name _____

Business Address _____

Place: _____

Signature of Tenderer _____

Date: _____

SECTION – X PRICE SCHEDULE (A)

A-1) PRICE SCHEDULE FOR TURNKEY WORKS

S.No	DESCRIPTION	QTY	UNIT	Unit Rate in Rs.	Total Rate in Rs.
ALUMINUM WORK					
	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)		M.T		
	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge : Powder coated aluminium (minimum thickness of powder coating 50 micron)	0.25	MT		
	S/F 100mm brass lock for aluminium door including necessary cutting and making good etc. complete	1	EACH		
	Providing and fixing aluminium tower bolts (100*10mm) ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :	2	EACH		
	Providing and fixing glazing in aluminum door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in- Charge. (Cost of aluminum snap beading shall be paid in basic item): With float glass panes of 8 mm thickness.	27	SQM		
	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).	QRO	M.T		

S.No	DESCRIPTION	QTY	UNIT	Unit Rate in Rs.	Total Rate in Rs.
	Providing and fixing aluminum tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc. complete as per direction of Engineer-in-Charge. Anodized (AC 15) aluminum tubular handle bar	4	EACH		
	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete. With twin rubber stopper	2	EACH		
	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With Brass cover Plate	2	EACH		
	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/ Brick/ Stone/ wood/ Ceramic/ Gypsum work by providing weather/structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete, complying to ASTM C920, DIN 18540-F & ISO 11600. Upto 20 mm depth and 20 mm width	24	RM		
	Providing and fixing 12 mm thick pre laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in paneling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-inCharge. Pre-laminated particle board with decorative lamination on both sides	31	SQM		
FLOORING					
	Providing & laying first class full body vitrified ceramic tile of make Kajaria/ Restile/Johnson or equivalent of size 600mmx600mmx 9.5mm or approved size of approved colour (matt finish) in flooring using spacer of required size (2mm-4mm) from endura or equivalent over a bed of cement mortar 1:4 of required thickness to match finished floor level mentioned and to match the neighbouring floor finish and jointed with epoxy grout of approved shade from Bal Endura or equivalent brand all complete as directed.(Basic cost of tile - Rs.85/sft).Any difference in basic price and OHP at the time of approval shall be adjusted for the laid area.No extra shall be payable for forming any pattern in the flooring like border, cut tiles,etc.	6	M.SQ		
	Providing and laying 600mm x 600mm or required size from Kajaria/ Restile/Johnson glazed tiles of plain series(Satin finish) in dado set in CM 1:3 with joints so as to form a true & even surface and joints finished neatly with white cement mixed with matching pigments all complete as directed. (Rate should include base plastering with CM 1:5 of required thickness.)	24	M.SQ		

S.No	DESCRIPTION	QTY	UNIT	Unit Rate in Rs.	Total Rate in Rs.
	The rate shall include cost of providing 6mmx6mm groove in the plastering at top of the tile all complete as directed.(Basic cost of tile - Rs.85/sft).Any difference in basic price and OHP at the time of approval shall be adjusted for the laid area.No extra shall be payable for forming any pattern like border, etc.				
	Providing and fixing 40 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade. Area of slab over 0.50 sqm	9	M.SQ		
MASONRY WORK					
	Half brickwork with locally available best quality table moulded bricks of not less than 50kg/sq.cm crushing strength in CM 1:3 (1 cement 3 sand) and reinforced with two numbers of 6mm dia. M.S rods at every fourth course embedded in cement mortar 1:4 for partitions.				
	In Ground Floor	16	M.SQ		
PLASTERING					
	Prepare surfaces and plaster with CM 1:5(1 cement, 5 sand) ,12mm minimum thick to all interior faces of walls (sponge finish) including RCC surfaces not contiguous to masonry.Necessary internal grooves of size 10mmx10mm shall be carried out as shown/directed by engineer-in-charge.	36	M.SQ		
PAINTING					
	Prepare surfaces and paint two coats of plastic emulsion paint of approved colour over two coats of Gypsum punning of 6 mm minimum thick and primer all complete as per manufacturers specifications to all ceilings in all floors.	QRO	M.SQ		
	Finishing with oil bound washable Interior Emulsion of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer	64	M.SQ		
	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	QRO	M.SQ		

S.No	DESCRIPTION	QTY	UNIT	Unit Rate in Rs.	Total Rate in Rs.
	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	QRO	M.SQ		
	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	64	M.SQ		
	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. Complete	64	M.SQ		
	Finishing with Deluxe Multi surface paint system for exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm	QRO	M.SQ		
DISMANTLING					
	Dismantling plastered brickwalls in cement mortar including cleaning, stacking the useful materials as directed by engineer-in-charge and dumping the dismantled debris as indicated at site, levelling, consolidating, all complete as directed and disposing the debris away from site all complete as directed.	1	M.CUBE		
	Dismantling Aluminium partition including disposing the debris away from site as directed by engineer in charge all complete.	6	SQM		
PLUMBING					
	Providing and fixing gun metal gate valve with C.I. wheel of approved quality -25MM	1	M.SQ		
	Providing and fixing C.P. brass angle valve for basin mixer and geyserpoints of approved quality conforming to IS:8931 a) 15 mm nominal bore: 15 mm nominal bore.Make:Hindware,Cera,Jaquar etc..	1	EACH		
	Providing and fixing PTMT Bottle Trap for Wash basin and sink.Bottle trap 38mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 263gms.		EACH		
	Providing and fixing trap of self cleansing design with screwed down orhinged grating with or without vent arm complete, including cost of cuttingand making good the walls and floors :100 mm inlet and 100 mm outlet	1	EACH		

S.No	DESCRIPTION	QTY	UNIT	Unit Rate in Rs.	Total Rate in Rs.
	Providing and fixing square – mouth PVC. Gully trap grade “A” complete with CI grating brick masonry chamber with water tight CI cover with frame of 300 x 300mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design	1	EACH		
	Providing and fixing white vitreous china pedestal type water closet(European type W.C. pan) with seat and lid, 10 litre low level white P.V.C.flushing cistern, including flush pipe, with manually controlled device(handle lever), conforming to IS : 7231, with all fittings and fixturescomplete, including cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic seat and lid	1	EACH		
	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brasspillar taps, 32 mm C.P. brass waste of standard pattern, including paintingof fittings and brackets, cutting and making good the walls whereverrequire:White Vitreous China Wash basin size 630x450 mm with apair of 15 mm C.P. brass pillar taps	5	EACH		
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.Concealed work including cutting chases and making good the walls etc				
	20 mm nominal outer dia .Pipes	138	RM		
	32 mm nominal outer dia Pipes	148	RM		
	50 mm nominal outer dia Pipes	12	RM		
	Providing and fixing PVC Waste pipe for sink or wash basin including PVC waste fittings complete.:Semi rigid pipe 32mm dia	2	EACH		
	Providing and fixing CP Waste coupling for wash basin and sink of approved quality, colour and make. Waste coupling 31mm of 79mm length and 62mm breadth, weighing not less than 45 gms. Make:Hindware,Jaquar etc.,	2	EACH		
	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	2	EACH		
	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	6	EACH		

S.No	DESCRIPTION	QTY	UNIT	Unit Rate in Rs.	Total Rate in Rs.
	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	6	EACH		
	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.	6	EACH		
CURTAIN WORK					
	1.Two range of curtain cloth – Type 1 - II.				
	2. Both for doors, windows and partions.				
	3. Assorted colours plain & prints				
	4.Stitched as per site/ size requirement				
	5.Minor modifications in stitching as per site/ size requirement				
	6.Preferred colour (Brown, Cream, Beige)				
	7.Curtain price (including cloth & curtain rod) to be quoted in Squire metre				
	8.Stitching for each curtain to be absorb in the price of the cloth generally 2 meters.				
	9.Fast colours, water wash				
	10.Fabric density Non Transparent Composition				
	11.Fabric of curtain shall be soft texture, great shading, drape effect and nice doobby.				
	12.The bracket shall be side mounted and front mounted as required				
	13.First rod mount is 3.5 inches from the wall.				
	14.Where curtain used as a partition/ long length, sufficient support from ceiling should be provided to avoid sagging.				
	15.Rate quoted for fully stitched Curtain with top nepha with punch holes after lining bucramreinforced with SS / PVC islets and lower nepha 200mm double turned.				
	Type -I (Surgical Curtain)				
	Curtain fabric weight shall be up to 275-300 (±5%) gsm Composition of fabric shall be polyester yarn I.E. 300 denier fast colour sink age shall be (±5%) Weft and warp shall be polyester / cotton polyester mix	QRO	M.SQ		

S.No	DESCRIPTION	QTY	UNIT	Unit Rate in Rs.	Total Rate in Rs.
	Type - II (Window & Door Curtain)				
	Curtain fabric weight shall be up to 250-275 ($\pm 5\%$) gsm Composition of fabric shall be polyester yarn I.E. 300 denier fast colour sink age shall be ($\pm 5\%$) Weft and warp shall be polyester / cotton polyester mix	QRO	M.SQ		
	Providing and fixing of vertical/roller blinds width 100 mm regular quantity made from 100 % polyster/Fibre yarn coated with fade resistant polymer to ensure complete opaquety with zero light transmittance, having suitable coating on exterior, including all fixtures and fittings complete in all respect as per design and instruction of Engineer in-charge and as per site conditions. The colour will be approved by the competent authority Make-MAC/VISTA/NOVA or any equivalent make.	58	M.SQ		
	<p>Providing and fixing of Single Tap Scrub Station as per the specification as follows</p> <ol style="list-style-type: none"> 1. Deep sloping basin 2. One High mount spout/taps with elbow operated flow regulator (length of flow regulator approximately 18-24cms) 3. Tap should have provision for manual aeration of water 4. 304 stainless steel polished and ground 5. Wall Mounted Design with provision for back panel wall bracket fixation 6. Provision for Scrub Solution Stand with long handle for pumping 7. Sizes <ol style="list-style-type: none"> a. Width – Approximately 90-100 cms b. Height of Back Panel of sink – 90 -95 cms c. Height of Sink from Ground – 100-110 cms d. Depth of Sink from Top of the Sink – 40-45 cms e. Height of Tap from the top of the sink – 25-28 cms f. Protrusion of Sink from Wall – 45-50 cms 	3	EACH		
	<p>Providing and fixing of Two Tap Scrub Station as per the specification as follows</p> <ol style="list-style-type: none"> 1. Deep sloping basin 2. Two High mount spout/taps with elbow operated flow regulator (length of flow regulator approximately 18-24cms) 3. Tap should have provision for manual aeration of water 	3	EACH		

S.No	DESCRIPTION	QTY	UNIT	Unit Rate in Rs.	Total Rate in Rs.
	4. 304 stainless steel polished and ground 5. Wall Mounted Design with provision for back panel wall bracket fixation 6. Provision for Scrub Solution Stand with long handle for pumping 7. Sizes a. Width – Approximately 130-140 cms b. Height of Back Panel of sink – 90 -95 cms c. Height of Sink from Ground – 100-110 cms d. Depth of Sink from Top of the Sink – 40-45 cms e. Height of Tap from the top of the sink – 25-28 cms f. Gap Between two taps – 65- 68 cms g. Protrusion of Sink from Wall – 45-50 cms				
SIGNAGES & FURNITURES					
	Supply and fixing bilingual signage (Hindi & English) or only English. The signage letters will be made with premium quality vinyl sheet of approved colour, pasted on 5mm thick aluminium composite panel backing. The signage will be either fixed on the wall with the screws & double tape or hanged from the false ceiling with the help of hooks & chains complete work.				
	21”X 4” (84 Sq. inch)	21	EACH		
	Providing and fixing LED (1.2 watt each of reputed make such as M/s Samsung or equivalent,) signage of NIB on flat roof top as per the given sketch including designing & fabrication of mild steel structure for holding the signage. The letter will be made in approved colour with acrylic sheet and waterproof LEDs and outdoor type transformers will be used in the signage. The mild steel structure will be anchored with the brickwork by using anchor bolts etc. so as to withstand high pressure wind/ storm, complete work including s/o a M.S. ladder from lower roof top to signage site roof top for working & future maintenance, s/o all T&P etc. required for proper completion of the work. The design of structural steel will be got checked and signed by a structural engineer before execution of the work.	2	SQM		

S.No	DESCRIPTION	QTY	UNIT	Unit Rate in Rs.	Total Rate in Rs.
	Providing & Fixing mid back chair .The seat & back are made up of 12mm thick hotpressed plywood, upholstered with fabric & moulded with Polyurethane foam seat and back covers. The back foam should designed with contouredlumbar support for extra comfort .The seat has extra thick foam on front edge to give extra comfort.Mid back size 475 mm Width x 580 mm Height mm. And seat size 470 mm Width x 480 mm Thepolyurethane foam should bemoulded with density = 45 kg/m3 and hardness = 16 +/-2 kg on hampdem machine at 25% compression .Armrest are injection moulded from black copolymer polypropylene. The mechanism should befixed 360 degree revolving type,Upright position locking, tilt tension adjustment, seat back tilting ratio 1:3. The pneumatic height adjustment has an adjustment stroke of 12 cm. The pedestal should be injection moulded in black 33 % glass filled in nylon 66 with 5 nos twin wheel castors. The pedestal should be 66.3 cm pitch-center diameter.	18	EACH		
	Supplying and fixing of Three Seater Waiting Area Visitor Chairs · Non-Magnetic SS perforated sheet seat and back shell made of high quality steel makes it strong and durable. · 1608mm (L)X 695 (H) X 555 (D). Legs and Armrests are made of cold rolled steel and are chrome plated for long life. Armrest and legs are anti rust and anti scratch.	2	EACH		
	Supply Of Furniture Items:-Sofa Set Five Seater L Shape Without Arm Rest, Size: 3150MM X 2750 MM, Made Of 32-40 Density, Sleepwell Foam And Desired Fabric Upholestry As Per Attached Specification. Make: Godrej/Surya Interior/Geeken/Featherlite, Execitive Chairs: High Back, Centre Tilt Syncro, Nylon Pedestal, Pp Fixed Arms. Size: 99.5-101.5H X 78D X 78Wcms And Seat Height- 41.5-53.5 Cms. Make: Godraj Or Suriya Interior Or Durian Or Geeken Or Featherlite, Executive Table: Wooden Top With Eru Square Tube Under Structure With Option Of Three Drawer Unit One Side. Size: 1650 X 900 X 728 Mm. Model: Godraj Or Surya Interior Or Geeken Or Durian.	1	EACH		
	Providing and Supplying table of size 1350W x 750 D x 750H, whose work surface is made of 18mm thick. Pre Laminated Particle Board (PLB) All work surface edges are duly sealed with 2mm thick PVC Edge banding. The modesty panel is made of 18mm thick. Pre Laminated Particle Board (PLB) All work surface edges are duly sealed with 2mm thick PVC Edge banding. The rectangular frame is fabricated component in 1.2mm thick CRCA (IS:513), Finish: Powder coated (Epoxy polyester). The leg is Fabricated component in 38mm x25mm x1.2mm thick MS ERW Tube (IS:7138), Finish: Powder coat (Epoxy polyester).The leveler glide for leg is Nylon 6 & MS Bolt. The shell and drawer tray are made of 0.6mm thick CRCA (IS:513), Finish: Powder coat (Epoxy polyester).The drawer front is 0.8mm thick CRCA (IS:513), Finish: Powder coat (Epoxy polyester) and frame assembly is 1.2mm thick CRCA (IS:513), Finish: Powder coat (Epoxy polyester).	4	EACH		
	Providing and Supplying shoe rack of size 1175W x 1175 H x 375 D, whose work surface is made of 25mm thick. Pre Laminated Particle Board (PLB) OR Engineered Wood All work surface edges are duly sealed with 2mm thick PVC Edge banding. The modesty panel is made of 18mm thick. Pre Laminated Particle Board (PLB) All work surface edges are duly sealed with 2mm thick PVC Edge banding. Powder coat (Epoxy polyester). Brand: Evok OR Equivelent Assembly: Carpenter Assembly Dimensions: 1175W x 1175 H x 375 D Primary Material: Engineered Wood Room Type: Living Room	1	EACH		

S.No	DESCRIPTION	QTY	UNIT	Unit Rate in Rs.	Total Rate in Rs.
	Providing & Fixing Sofa-2 seater. Size: 1320 mm (W) x 835 mm (D) x 690 mm (H) Seat Height from ground 415 mm. Frame is made up of Tropical Solid Wood with synthetic leather Upholstery, Seat Foam : Polyurethane Foam with recron layer. Foam Density : 18 kg/ cubic cm. Back Foam : Polyurethane Foam with silicon fill at arms. Foam Density : 22 kg/cubic cm S-Spring webbing. The Sofa is based on wooden legs	QRO	EACH		
	Providing & Fixing HIGH back executive chair .The seat & back are made up of 12mm thick hotpressed plywood, upholstered with fabric & moulded with Polyurethane foam seat and back covers. The back foam should be designed with contoured lumbar support for extra comfort .The seat has extra thick foam on front edge to give extra comfort. Mid back size 475 mm Width x 580 mm Height mm. And seat size 470 mm Width x 480 mm The polyurethane foam should be moulded with density = 45 kg/m ³ and hardness = 16 +/- 2 kg on Hampden machine at 25% compression .Armrest are injection moulded from black copolymer polypropylene. The mechanism should be fixed 360 degree revolving type, Upright position locking, tilt tension adjustment, seat back tilting ratio 1:3. The pneumatic height adjustment has an adjustment stroke of 12 cm. The pedestal should be injection moulded in black 33 % glass filled in nylon 66 with 5 nos twin wheel castors. The pedestal should be 66.3 cm pitch-center diameter.	5	EACH		
	Providing and supplying and fixing wooden cupboard with drawers (12no.) Specifications: 19mm commercial ply with ISI brand, neem core, inside and outside laminate finish with heavy duty telescopic drawer channel. Load for each drawer channel will be 50Kg Size: 2400mm length/600mm depth /900mm height	2	EACH		
	Providing and supplying and fixing wooden cupboard with drawers (8no.) Specifications: 19mm commercial ply with ISI brand, neem core, inside and outside laminate finish with heavy duty telescopic drawer channel. Load for each drawer channel will be 50Kg Size: 1800mm length/600mm depth /1800mm height	8	EACH		
	Supply of the FEATHERLITE Versaline Executive Table as per the Featherlite specifications . 1.V-MT 1890, W 1800 x D 900 x H 750 2. V-ST 1245 (LH & RH), W 1200 x D 450 x H 750 and 3. V-CZ, W 1200 x D 450 x H 750	1	EACH		
ANTISTATIC FLOORING & COVING					
	Supply installation testing & commissioning (SITC) of PVC coving D 50 with required aluminium / PVC back supports with application of clear sealant to the lips of the coving, complete with all necessary hardware, accessories, fittings and fixtures, as per description in individual items, technical specifications, drawings and instructions of the Engineer-Incharge	142	RM		
	PVC 3D corner coverings with back supports as required and application of clear sealants to all joints, complete with all necessary hardware, accessories, fittings and fixtures, as per description in individual items, technical specifications, drawings and instructions of the Engineer-Incharge.	86	NOS		

S.No	DESCRIPTION	QTY	UNIT	Unit Rate in Rs.	Total Rate in Rs.
	Providing and laying 13 mm thick antistatic/conductive vinyl flooring of make Marvel Vinyl/ Electra plus or equivalent of approved quality and colour conforming to the IS: 3462/ 1986 on the finished concrete or terrazzo tiles flooring or any hard surface with necessary approved adhesive for laying antistatic vinyl sheet/roll including cleaning the floor before and after laying of Vinyl flooring and providing thin copper strip of size about 20.00 x 0.20 mm along the periphery of room and below each joint of two sheets wherever directed with copper screws/ rivets @600 mm c/c .Two ends of copper strips (terminals) to be fixed to wall about 300 mm height for earthing of antistatic flooring all complete as per the direction of Engineer-in-charge.(NOTE any deduction beyond 0.5 Sqm will be deducted from the measurement)	132	M.SQ		
FALSE CEILING & CLADDING					
	Installation and commissioning of Sliding/Swing, Automatic hermetically sealing type of double leaf door of size 2400 x 2400 mm having high density particle board cores, high pressure laminated faced on both sides, viewing window 300 x 300 mm and consisting of all fitting accessories and automation system comprising of double leaf sliding/Swing door actuator with built in photocells. Clear opening:- 2400 mm X 2400 mm, A pair of microwave radar and accessories i.e. Electromechanical lock with manual release device. Digital programmer switch, Back up battery, DMCS Software, Central rabbet seal for sliding PUF Panels all complete including GST, Freight etc. as per instruction of Engineer Incharge and Installation of Automatic motorized double leaf sliding/Swing door made of high density particle board cores, high pressure laminated faced on both sides consisting of all fitting accessories (Labour charges)	2	EACH		
	Installation and commissioning of Sliding/Swing, Automatic hermetically sealing type of single leaf door of size 1200 x 2100 mm having high density particle board cores, high pressure laminated faced on both sides, viewing window 300 x 300 mm and consisting of all fitting accessories and automation system comprising of single leaf sliding/Swing door actuator with built in photocells. Clear opening:- 1200 mm X 2100 mm, A pair of microwave radar and accessories i.e. Electromechanical lock with manual release device. Digital programmer switch, Back up battery, DMCS Software, Central rabbet seal for sliding PUF Panels all complete including GST, Freight etc. as per instruction of Engineer Incharge and Installation of Automatic motorized Single leaf sliding/Swing door made of high density particle board cores, high pressure laminated faced on both sides consisting of all fitting accessories (Labour charges)	2	EACH		
	Removing and fixing in position of Existing false ceiling in armstrong 600 x 600 x 15/16 mm Dune Supreme RH 99 Prima tile with SILLHOUT Groove type FINE FISSURED RIGHT ANGLE EDGE TILES WITH ARMSTRONG SELECT (WHITE) 15 MM EXPOSED GRID frame work with microlok as specified by Armstrong Co. with suspenders wherever required. Making necessary framework for A.C. ducting, if any and necessary cutouts for diffusers and light fittings, taping and finishing to proper line & level, including making grooves and trap doors for A.C. unit in 18 mm thick M.R. Grade Plywood with Stainless steel hinges & locks with moulding 1" x 1" for edges including finishing with White Plastic Emulsion Paint etc. complete in all respects. (Note:- Only the plan area will be measured for payment. No extra payment will be made for cutouts, grooves, mouldings etc.).	418	M.SQ		
	MODULAR CEILING PANELS - 50MM thick & Aluminium Ceiling Grid				

S.No	DESCRIPTION	QTY	UNIT	Unit Rate in Rs.	Total Rate in Rs.
	Supply installation testing & commissioning (SITC) of the Modular False Ceiling System shall comprise of ceiling panels of double skin type 50mm thick, sandwiched with selfextinguishing quality PUF of density not less than 38kg / cum the inner and outer skin shall be of powder coated steel sheet, the thickness of inner skin and outer skin of the panel shall not less than 0.8mm the powder coated steel sheet shall be hot dip galvanized with zinc coating not less than 180gm/sqm both side of the GI sheet used. The false ceiling system shall also include ceiling grid system consisting of T-grid of extruded aluminum anodized surface, wall angle, suspender rod, turnbuckle, nuts, bolts, anchor fasteners etc., as required for fixing the panels, & HEPA filter frame, ceiling grid configuration length and width shall be suitable for fixing ceiling blanks, HEPA module, light fixtures etc. All the suspended material shall be galvanized finish. The ceiling grid system shall be suitable for walkable type false ceiling.the vertical panels to be from false ceiling till the true concrete ceiling. Fire rating - class O and colored approved by HLL. IMPORTANT NOTE: The contractor to take utmost care for tranport,shifting and erecting complete with all necessary hardware, accessories, fittings and fixtures, as per description in individual items, technical specifications, drawings and instructions of the Engineer-Incharge.Note:Necessary cutopens to be made for service outlets and finished after passing the service outlets.	247	M.SQ		
	Basic Amt in Rs.				
	GST @ 18% in Rs.				
	Total Amount in Rs.				

Sl.No	Description of work	Unit	Qty	Unit Rate in Rs.	Total Rate in Rs.
1	Point wiring in PVC conduit with modular type switch.				
	Wiring for light point/fan point/exhaust fan point /call bell point with 1.5 sq mm FR PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit, with modular switch, modular plate, suitable PVC box and earthing the point with 1.5 sq.mm FR PVC insulated copper conductor single core cable etc as required.				
	Group C	Point	40		
2	Wiring through PVC conduit				
	Wiring for circuit/submain wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.				
a	2X1.5 sq.mm + 1X1.5 sq.mm earth wire	Metre	575		
b	2X2.5 sq.mm + 1 X2.5 sq mm earth wire	Metre	2850		
c	2X4 sq.mm + 1X4 sq.mm earth wire	Metre	2650		
3	A/C point				
	S/F 20A SPN MCB industrial socket outlet: Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Point	0		
4	Modular type blanking plate:				
	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	20		
5	Modular boxes, bases & cover plate:				
	Supplying and fixing following size/modules, PVC box along with modular base & cover plate for modular switches in recess etc as required.				
a	2 module	Each	5		

Sl.No	Description of work	Unit	Qty	Unit Rate in Rs.	Total Rate in Rs.
b	3 module	Each	50		
c	6 module	Each	100		
d	8 module	Each	4		
6	Modular type switch/socket:				
	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required.				
a	5/6 Amps switch	Each	235		
b	3 pin 5/6 Amp socket outlet	Each	235		
c	15/16 Amps switch	Each	50		
d	6pin 15/16 Amps (universal) socket outlet	Each	50		
e	Telephone socket outlet	Each	6		
7	Telephone wiring in existing conduit:				
	Supplying and drawing following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
a	2 Pair	Metre	190		
8	S/F PVC conduit:				
	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
a	20 mm	Metre	250		
b	32 mm	Metre	190		
9	ITC Fluorescent fitting directly on surface: Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	26		

Sl.No	Description of work	Unit	Qty	Unit Rate in Rs.	Total Rate in Rs.
9.1	ITC Ceiling fan: Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable etc. as required.	Each	0		
10	CABLE LAYING				
	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1kV grade of following size clamped on wall surface with 1mm thick saddles as required complete.				
a	From VDB to LDB				
	4X16 sq.mm	Metre	25		
b	From VDB to PDB				
	4X25 sq.mm	Metre	70		
c	From DG to VDB				
	3.5X50 sq.mm	Metre	75		
11	END TERMINATION				
	Supply and making end termination with brass compression gland, earth clip and aluminium lugs for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable fo 1.1KV grade as required.				
a	4X16 sq.mm	Each	2		
b	4X25 sq.mm	Each	10		
c	3.5X50 sq.mm	Each	6		
12	Supply and installation of 20W recess mounted, decorative Soft lite luminaire, powder coated CRCA housing complete with all electrical accessories like electronic ballast, lamp holder, 20W LED etc complete with all mounting accessories like chain, anchor fastner etc as required. (Make Crompton,Havells)	Each	15		

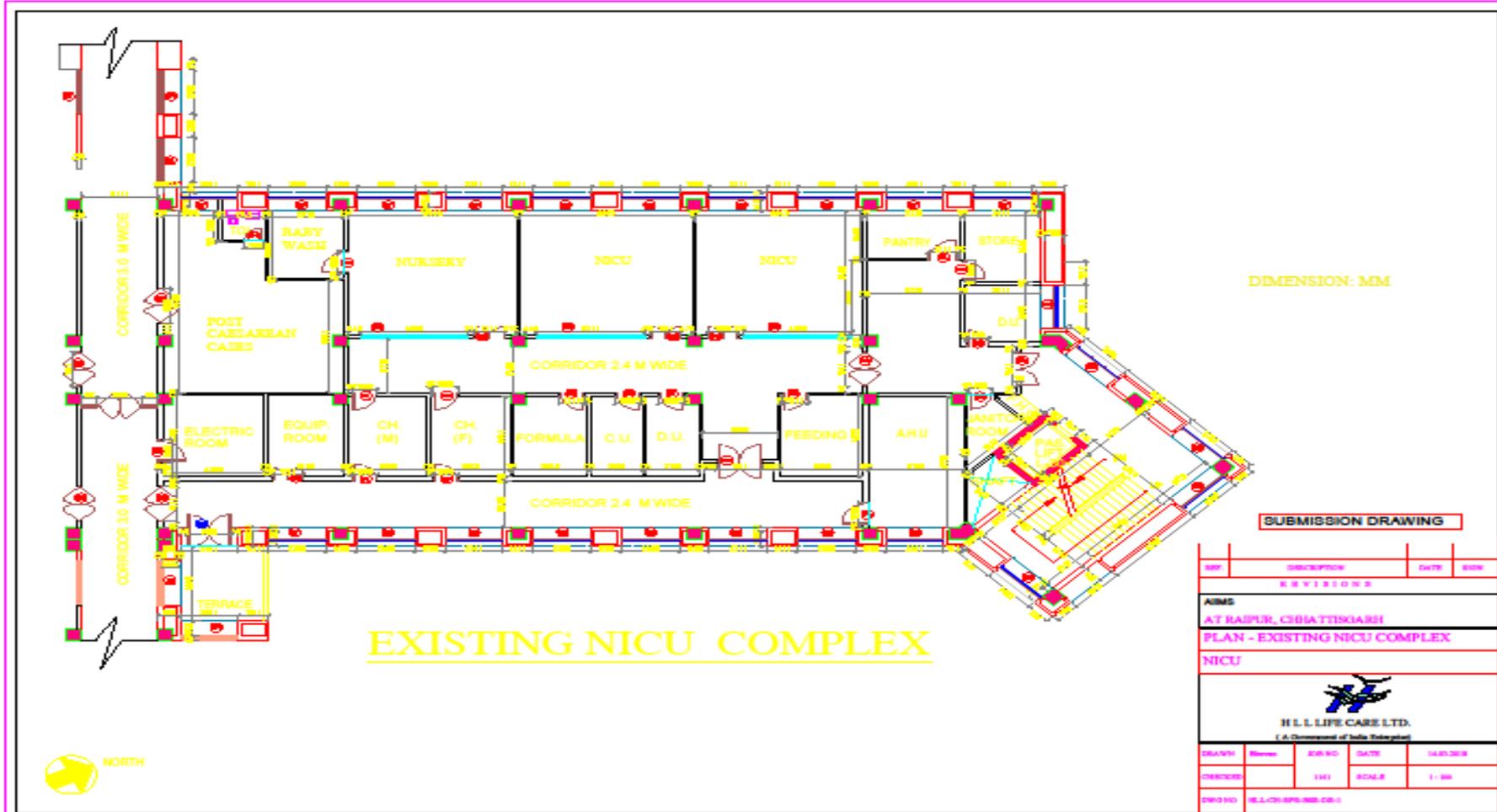
Sl.No	Description of work	Unit	Qty	Unit Rate in Rs.	Total Rate in Rs.
13	Supplying and fixing PVC angle batten/batten holder with 12W LED, including connection as required.	Each	3		
14	Supply of 1x28W flourescent tube fitting sleek with decorative end cap, powder coated CRCA steel channel complete with all electrical accessories like electronic ballast, lamp holder, 28W T5 lamp etc complete as required. (Philips TMS 540 HF / Wipro WRF 80128 SG / GE DMS 28 N N)	Each	3		
15	Supply & installation of 1x9 watts recess mounted down light fixture, with aluminium reflector, CRCA sheet housing, complete with all accessories like ballast, 9W LED lamp etc complete as required.	Each	18		
16	Supply and installation of Ceiling fan with its all accessories(Make Havells/bajaj/usha)	Each	0		
17	S/F Enclosure for UPS				
	Supplying and fixing following way, three pole and neutral, sheet steel, Enclosure 415 volts, on surface/recess.	Each	2		
	100A/25KV MCCB	Each	2		
17.A	S/F Vertical Type TP MCB DB:				
	Supplying and fixing following way, three pole and neutral, sheet steel, Vertical MCB distribution board, 415 volts, on surface/recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatised and powder painted including earthing etc. as required (with provision for isolator as incomer) (Make: Legrand/Havells/HPL)				
	4 way, double door	Each	2.00		
17.1	S/F of FP Isolators				
	Supplying and fixing following rating, four pole, (three phase and neutral) 415 volts isolators in the existing Vertical DB as incomer complete with connections, testing and commissioning etc as required. (Make: Legrand/Havells/HPL)				
	63/100 A, 4P isolator	Each	2.00		

Sl.No	Description of work	Unit	Qty	Unit Rate in Rs.	Total Rate in Rs.
17.2	S/F of TP MCB				
	Supplying and fixing 6 amps to 63 amps rating, 415 Volts, "C" series, miniature circuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc as required.(Make: Legrand/Havells/HPL)				
	32A TP MCB	Each	2.00		
	63A TP MCB	Each	5.00		
18	S/F of TPN MCB PDB				
	Supplying and fixing following way, three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/recess, complete with tinned copper bus bar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatised and powder painted including earthing etc. as required (But without MCB/ RCBO/isolator) (Make: Legrand/Havells/HPL)				
	12 way Double door, horizontal type.	Each	4.00		
18.1	S/F of TPN RCBO				
	Supplying and fixing following rating, four pole, (three phase and neutral) 415 volts RCBO, having a sensitivity current upto 100/300 milliamperes in the existing MCB PDB complete with connections, testing and commissioning etc. as required.(Make: Legrand/Havells/HPL)				
	63 A 4P RCBO 100mA	Each	4.00		
18.2	S/F of SP MCB				
	Supplying and fixing 6 amps to 32 amps rating, 240 Volts, "C" series, miniature circuit breaker suitable for power loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc as required.(Make: Legrand/Havells/HPL)				
	15A SP MCB	Each	120.00		
19	TPN MCB LDB				
	Supplying and fixing following way, three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/recess, complete with tinned copper bus bar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatised and powder painted including earthing etc as required(But without MCB/RCBO /isolator) (Make:Legrand/Havells/ HPL)				
	8 way (4+12), double door	Each	2.00		
19.1	S/F of TPN RCBO				

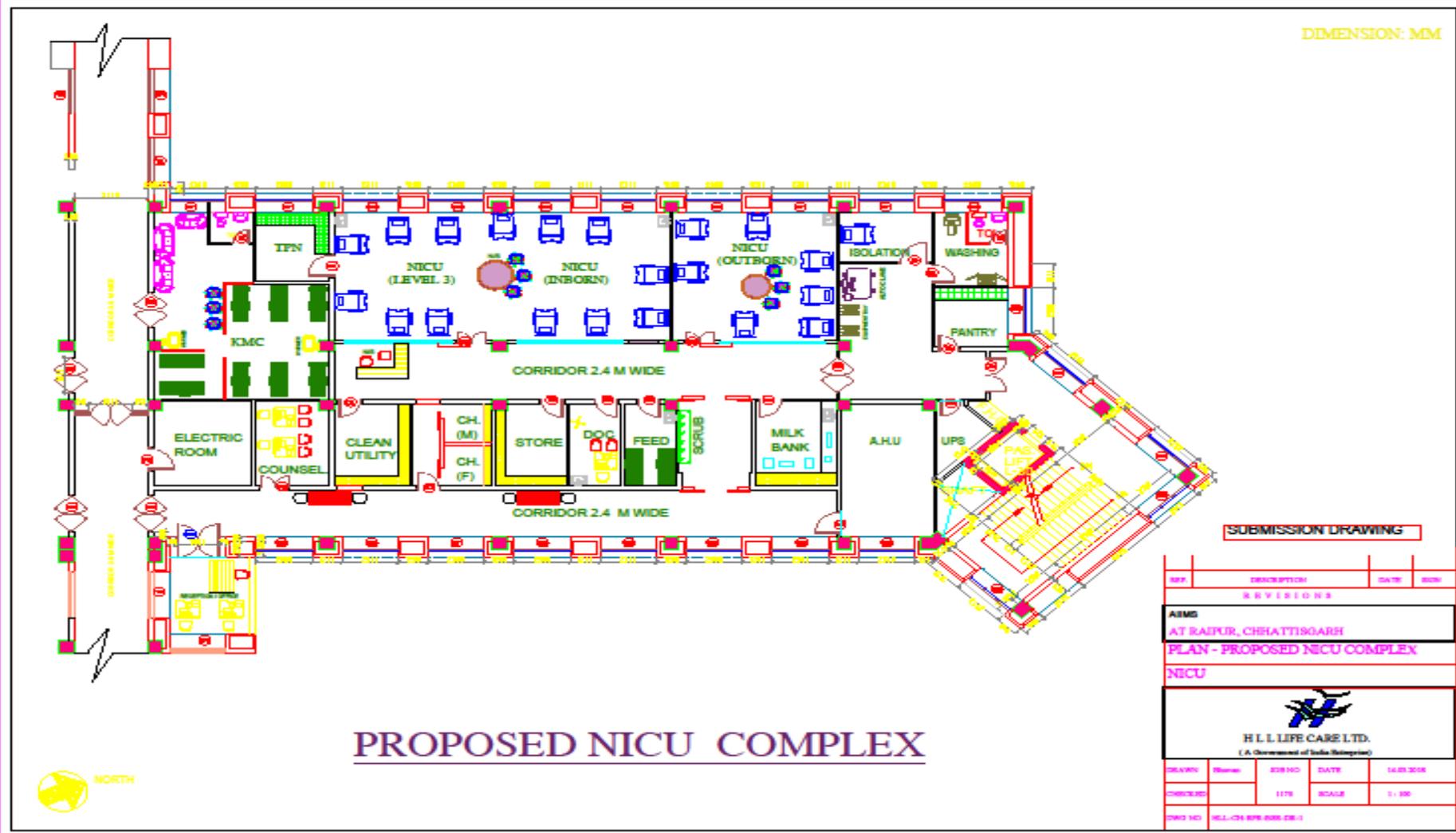
Sl.No	Description of work	Unit	Qty	Unit Rate in Rs.	Total Rate in Rs.
	Supplying and fixing following rating, four pole, (three phase and neutral) 415 volts RCBO, having a sensitivity current upto 30 milliamperes in the existing MCB LDB complete with connections, testing and commissioning etc. as required.(Make: Legrand/Havells/HPL)				
	32/40 A 4P RCBO 30mA	Each	2.00		
19.2	S/F of SP MCB				
	Supplying and fixing 6 amps to 10 amps rating, 240 Volts, "C" series, miniature circuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc as required.(Make: Legrand/Havells/HPL)				
	6/10A SP MCB	Each	18		
20	CABLE SUPPLY				
	Supplying the following PVC insulated and PVC sheathed/XLPE power COPPER cable of 1.1 KV grade as per CPWD standards as required. (Make:Havells/ Glostar/Nicco)				
a	4X10 sq.mm	Metre	25		
b	3.5X25 sq.mm	Metre	70		
c	3.5X50 sq.mm	Metre	75		
21	Pipe earthing with G.I. earth pipe 2.5 metre, long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt) as required complete.	Set	2		
22	Supplying and laying 6 SWG Copper wire on, surface or in recess for loop earthing along with existing surface/recessed conduit/submain wiring/ cable as required.	Metre	40		
23	Supplying and laying 10 SWG Copper wire on, surface or in recess for loop earthing along with existing surface/recessed conduit/submain wiring/ cable as required.	Metre	160		
24	WORK COMPLETION				
24.1	Leading, Positioning, Installation, testing and commissioning of 20-25 kVA DG set with all its accessories	LS	0		
24.2	TESTING CT & ENERGY METER	LS	0		

Sl.No	Description of work	Unit	Qty	Unit Rate in Rs.	Total Rate in Rs.
24.2	Preparation of all drawings submitting and getting approval from Electrical Inspectorate, submitting of Completion certificates and arranging inspection, getting sanction and energisation certificates from Electrical Inspectorate & OEB, obtaining power allocation & power connection etc. for commissioning of the whole installation in the premises. all statutory payments will be reimbursed on production of the original receipts. (Finding the exact Feeder to tap power is under the scope of Contractor)	LS	0		
25	Miscellaneous Items				
25.1	Miscellaneous electrical work, removing of existing conduits and interconnections of light,6A socket/16A socket/A/C point from existing DB	LS	0		
26	Supply and pointing exhaust fan shutter type white colour-9"/10"(Make Havells/Bajaj/Almonard)	Each	0		
27	Supply and Fixing of Calling bell with its all accessories	Each	3		
	Basic Amt in Rs.				
	GST @ 18% in Rs.				
	Total Amount in Rs.				

CIVIL DRAWING- EXISTING SITE



CIVIL DRAWING- PROPOSED SITE



SECTION – X PRICE SCHEDULE (B)

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

1	2	3	4				
SI No.	Brief Description of Goods	QTY	Comprehensive Maintenance Contract price per unit per year				
			1 st year	2 nd year	3 rd year	4 th year	5 th year
1	Open care system: Radiant warmer	3					
2	Wall mounted Radiant warmer	12					
3	LED Phototherapy unit, detachable type	6					
4	Neonatal Ventilator	2					
5	CPAP Machine	5					
6	Multiparamonitor - High End	2					
7	Multiparamonitor - Low End	15					
8	ECG Machine	1					
9	Blood Gas Analyser	1					
10	Syringe pump, 10,20,50 ml, single phase	50					
11	Mobile X - Ray machine	1					
12	Echo Machine	1					
13	Air Conditioning with (AHU) with HEPA filter with positive air pressure and one room with negative pressure with minimum 20 air changes per hour with class 10000 standards	1					
	GST: _____						
	Total Rs:						

*** After completion of 5 years Warranty period for respective equipment as mentioned in the warranty clause**

NOTE:-

1. In case of discrepancy between unit price and total prices, THE UNIT PRICE shall prevail.
2. The cost of CAMC 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.
3. The cost of CAMC 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. Successful tenderer shall enter into an contract with AIIMS, after expiration of warranty period with approval from HLL as per Section XV.
5. The payment of CAMC will be made as per clause GCC clause 21.1.
6. The uptime warranty will be 95 % 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 CAMC period.
8. The stipulations in Technical Specification will supersede above provisions.
9. The supplier shall keep sufficient stock of spares required during Comprehensive Annual 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.

Name _____

Business Address _____

Place: _____

Signature of Tenderer _____

Date: _____

Seal of the Tenderer _____

SECTION – X PRICE SCHEDULE (C)

A) PRICE SCHEDULE FOR CONSUMABLES NOT COVERED UNDER WARRANTY & CAMC

1 SI No	2 Brief Description of Goods	3 Brand / Model	4 Make / Country of Origin	Qty	5 Price per unit (Rs.)						6 Total Price (at Consignee Site) basis (Rs.) 4 x 5(f)		
					Basic Rate Per Unit	GST		Freight & Insurance & Delivery at Destination		Service charges, if any, specify		Other charges, if any, specify	Unit Price (at Consignee Site) bas
						(a)	(b)		€			(d)	€
	%	Amt	%	Amt									
1													
2													
3													
4													
5													

*

Name _____

Business Address _____

Place: _____

Signature of Tenderer _____

Date: _____

Seal of the Tenderer _____

SECTION – XI
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:-
 - a) fails or refuses to furnish the performance security for the due performance of the contract.
 - or
 - b) fails or refuses to accept/execute the contract.
 - or
 - c) 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 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 – XII

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CAMC SECURITY

To

HLL Lifecare Limited,
Akkulam Factory, Sreekariam PO,
Thiruvananthapuram – 17.
Phone +91 471 244 5930, Fax +91 471 244 5935
Email: hcdcmo@lifecarehll.com

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 36 (thirty 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 – XIII
A) MANUFACTURER’S/DISTRIBUTOR’S AUTHORISATION FORM

To

General Manager (Materials),
HLL Lifecare Limited,
Akkulam Factory, Sreekariam PO,
Thiruvananthapuram – 17.
Phone +91 471 244 5930, Fax +91 471 244 5935
Email: hcdcmo@lifecarehll.com

Dear Sirs,

Ref. Your TE document No _____, dated _____

We, _____ who are proven and reputable manufacturers/distributor’s 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 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, CAMC 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.

Yours faithfully,

[Signature with date, name and designation]
for and on behalf of Messrs _____

[Name & address of the manufacturer/distributor]

Note :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.

B) CONSORTIUM AGREEMENT

This Consortium agreement (hereinafter referred as “Agreement”) is entered on this the ___day of _____, 20__ by and between;

M/s _____, incorporated as a company under the Companies Act, 1956 and having its Registered Office at _____ (hereinafter referred as “Lead Partner”), which the expression shall unless otherwise include all its successors, and permitted assigns) and represented by _____, in the capacity of _____ of the FIRST PART

AND

M/s _____, a company incorporated under the laws of _____ and having its Registered Office at _____ (hereinafter referred as “Second Partner”), which the expression shall unless otherwise include all its successors, and permitted assigns)and represented by in the capacity of _____ of the SECOND PART

For the purpose of this Agreement both the “Lead Partner” as well as “Second Partner” are collectively called “Partners” and individually called “Partner”.

Whereas –

- a. HLL Lifecare Limited (Purchaser/HLL) has floated a tender vide Tender No: _____ for setting up of Neonatal Intensive Care Unit on turnkey basis.
- b. As per the Tender document, bids are to be submitted by any Consortium which will be considered; provided such bids fulfill all the specific requirements in that regard.
- c. Now the Parties to this Agreement decided to form a Consortium to participate in the Tender .
- d. AND WHEREAS the bid is being submitted based on the consortium agreement being these presents and the bid with its bid forms and submission documents in accordance with the requirement of tender document conditions and requirements have been signed by all the partners and submitted to HLL Lifecare Ltd.

NOW THIS AGREEMENT WITNESSTH HEREIN AS FOLLOWS

1. That the Parties to this Consortium do hereby agrees to participate in the Tender in the name and style of “ _____ ” (hereinafter referred as “Consortium”).
2. **Scope:** Purpose of this Agreement is to participate and submit all necessary bid documents against the Tender floated by HLL and in case of award, supply the tendered items listed below as against each partner.

SI. No.	List of Equipments	Qty in Nos
1		
2		
3		
4		
5		
6		

3. **Tenure:** This Agreement shall be valid till the date of either rejection of the Bid submitted by this Consortium against the Tender floated by the HLL or till the expiry of the Contract entered between the Consortium members and HLL in case of award of the Tender to this Consortium.
4. In consideration of the bid submission by us to HLL, pre-qualification of our technical bid by HLL if considered acceptable, submission of price bid by us and the award of contract by HLL to the Consortium (if selected by), we the partners to the Consortium, hereby agree that M/s _____ shall act as the Lead Partner for self, and for and on behalf of Partner – II and further declare and confirm that _____ shall be solely bound to HLL for execution of the contract in accordance with the contract terms and shall perform all contractual obligations including technical guarantees. Further, the Lead Partner is authorized to incur liabilities and receive instructions for and on behalf of any or all partners of the Consortium.
5. The Lead Partner shall be solely responsible for Management of all the works to be undertaken under the tender and it shall be the nodal point for HLL for queries, purchase orders, installation and payments.
6. In case of any breach of the said Contract by any of the partners of the Consortium, we hereby agree to be fully responsible for the successful execution/ performance of the Contract in accordance with the terms of the Contract.
7. Further, if HLL suffers any loss or damage on account of any breach of the Contract or any shortfall in the completed work meeting the guaranteed performance parameters as per the technical specifications/ contract documents, the Lead Partner undertakes to promptly make good such loss or damage caused to HLL, on HLL's demand without any demure. HLL shall have the right to proceed against_____.
8. The financial liability of the partners to this Consortium Agreement, to HLL with respect to the any or all claims arising out of the performance or non-performance of the Contract shall, however be not limited in any way so as to restrict or limit the liabilities of either of the partner.
9. It is expressly understood and agreed between the partners to this agreement that the responsibilities and obligations of each of the partners shall be as delineated in this agreement. It is further agreed by the partners that the above sharing of responsibilities and obligations

shall not in any way be a limitation of the joint and several responsibilities of the partners under the Contract.

10. Obligations of the Second Partner

- a. That, the Second Partner ensures the procurement and supply of the items listed above.
 - b. That, the Second Partner ensures to provide necessary training to the staffs employed in respective training centers operating under the provisions of the contract signed between the Consortium and HLL.
 - c. That, the Second Partner agrees to provide necessary repairers and replacements for supplied items, if any found defective during the tenure of the agreement between the Consortium and _____HLL. Provided such defects have incurred due to any breakage or manufacturing defect and must be pointed out by the Lead Partner to the Second Partner in writing within 3 days from the date of identification of such defect.
11. This Consortium Agreement shall be governed, construed and interpreted in accordance with Laws of India. Courts of Thiruvananthapuram shall have exclusive jurisdiction in all matters arising there under.
12. In case of award of contract, we the partners to this Consortium Agreement do hereby agree that we shall furnish the contract performance guarantee (if any) in favour of the HLL from a bank acceptable/ approved by HLL for a value as stipulated in the Contract Award.
13. It is further agreed that this Consortium Agreement shall be irrevocable and shall form an integral part of the Contract and shall continue to be enforceable till the Consortium members discharges the same. It shall be effective on the date first above mentioned for all purposes and intents.

IN WITNESS WHEREOF, the partners to this Consortium agreement have, through their respective authorized representatives, have executed these presents and affixed their hands and common seal of their respective companies on the day, month and year first abovementioned.

For M/s _____

For M/s _____

Authorized Signatory

Authorized Signatory

Witnesses:

- 1.

**SECTION – XIV
CONTRACT FORM - A**

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

THIS AGREEMENT made the day of, 20..... between (Name and Address of *Purchaser*) represented by the General Manager (Mtls)..... (hereinafter “the *Purchaser*”) of one part and (Name and Address of Supplier)(hereinafter “the Supplier”) represented by..... (Name of the Authorized Signatory and Designation), Aged years, residing at (Full Residential Address of the Signatory) of the other part:

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

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

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

BRIEF PARTICULARS OF THE GOODS AND SERVICES WHICH SHALL BE SUPPORTED / PROVIDED BY THE SUPPLIER ARE:

Sl. No.	Description of Goods	Qty	Unit Price in Rs.	GST Amt in Rs.	Total Amt in Rs.

SI. No.	Description of Goods	Qty	Unit Price in Rs.	GST Amt in Rs.	Total Amt in Rs.

Total Value in Rs. _____

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and constructed as part of this Agreement, Ref No. viz.:
 - (a) HLL Tender Ref No. _____
 - (b) HLL Amendment/Corrigendum No. _____,
 - (c) Supplier Bid Ref No. _____.
 - (d) Minutes of Negotiation Meeting Dt. _____.
 - (e) P.O.Ref No _____.
3. **Delivery location:**. All India Institute of Medical Sciences, Great Eastern Rd, AIIMS Campus, Tatibandh, Raipur, Chhattisgarh 492099
4. **Completion Period:** 60 days from the date of order.
5. **Terms of Payment:** Payment shall be made in Indian Rupees as specified in the contract in the following manner:-
 - (i) **Payment Terms - Equipment Supply**
 - a) **50% of supply value shall be released against supply and certificate for receipt of the item in good condition from the Hospital/purchaser.**
 - b) **45% payment shall be released against certificate of installation and commissioning certified by the Hospital Authorities/purchaser.**
 - c) **Final 5% shall be released against submission of certificate issued by Hospital/purchaser certifying that the facility has been installed, commissioned and handed over and submission on Performance Security and other documents stated in this tender.**
 - d) Payment shall be made subject to recoveries, if any, by way of liquidated damages or any other charges as per terms & conditions of contract 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.

(ii) Payment Terms - Turnkey part (Civil & Electrical works)

- a) 50% of the total value of work may be released upon the completion of 60 % of the work recommended by State In charge (P&S, HLL) and approved by Project Engineer (P&S, HLL)/ Manager (P&S, HLL).
- b) Balance 50% will be paid along with the final bill only after submission of Work Completion certificate issued by the concerned hospital and approved by Project Engineer (P&S, HLL)/ Manager (P&S, HLL).
- c) 5% amount of the Bill will be retained as retention money and will be released only after the Defect liability period of 12 months.
- d) Final Bill to be submitted detailing the work description, quantity and rate as per the Work Order. Payment will be made against actual measurements recorded and certified jointly by State In Charge (P&S, HLL) and the Contractor 's representative, counter signed by Project Engineer (P&S, HLL)/ Manager (P&S, HLL). The work completion certificate will be issued by the concerned centres/hospitals and it is the responsibility of the contractor to collect the completion certificate certified by the concerned hospital authority & HLL authorities and submit to HLL for balance 50% payment
- e) The running account bills are to be submitted detailing the work description, quantity and rate as per the Work Order. Payment will be made against actual measurements recorded and certified jointly by State in charge (P&S, HLL) and the Contractor's representative. For supply of capital items, duly certified delivery challan/supporting documents such as Warranty Certificates etc. shall be enclosed along with bill.
- f) Tax Deduction: All statutory deductions like GST, Income Tax, Works Contract Tax, E.S.I., P.F. or any other government-imposed liabilities shall be borne by the Contractor (as applicable at the time of execution of job) and shall be deducted from each bill submitted by the Contractor.

6. **Warranty:** Warranty period (as per table below) will be effective from the date of installation, commissioning and acceptance. During warranty period 3 preventive maintenance shall be executed, once in every four months in a year.

Sl. No.	List of Essential Equipments for NICU - 21 Bedded	Warranty	Qty
1	Open care system: Radiant warmer	5 years	3
2	Wall mounted Radiant warmer	5 years	12
3	LED Phototherapy unit, detachable type	5 years	6
4	Neonatal Ventilator	5 years	2
5	CPAP Machine	5 years	5

Sl. No.	List of Essential Equipments for NICU - 21 Bedded	Warranty	Qty
6	HHHNFC (Heated Humidifier)	1 year	1
7	Multiparamonitor - High End	5 years	2
8	Multiparamonitor - Low End	5 years	15
9	ECG Machine	5 years	1
10	Blood Gas Analyser	5 years	1
11	Syringe pump, 10,20,50 ml, single phase	5 years	50
12	Mobile X - Ray machine	5 years	1
13	X - Ray Viewing box	1 year	2
14	Pump, suction, portable, 220V, w/access.	1 year	1
15	Pump, suction, foot-operated	1 year	1
16	Glucometer with 100 dextrostix	1 year	6
17	Infantometer, Plexi, 3½ft/105cm	1 year	2
18	Scale, baby, electronic, 10 kg <5g>	1 year	3
19	Drum,sterilising,165mm diameter	1 year	9
20	Tape, measure, vinyl-coated, 1.5m E2	N/A	21
21	Stethoscope, binaural, neonate	1 year	21
22	Laryngoscope set, neonate	1 year	15
23	Resuscitator, hand-operated, neonate, 250ml	1 year	5
24	Resuscitator, hand-operated, neonate, 500 ml	1 year	10
25	Oxygen hood Small & Medium each 1, including connecting tubes	1 year	10
26	Basin, kidney, stainless steel, 825ml	N/A	21
27	Tray,dressing,SS,300x200x30mm	N/A	15
28	Echo Machine	5 years	1
29	Surgical instrument. suture/SET	N/A	5
30	Thermometer,clinical,digital,32-43°C	N/A	21
31	Hub cutter, Syringe	N/A	6
32	Medicine Storage and Dispensing Trolley	1 year	2
33	Instrument Trolley full SS	1 year	3
34	Stand infusion, double hook on casters	1 year	6
35	Wall Clock with Second hand	N/A	12
36	Double door Refrigerator 250 Ltrs with stand and stabilizer	5 year	2

Sl. No.	List of Essential Equipments for NICU - 21 Bedded	Warranty	Qty
37	Fully SS tables for ABG / Baby weighing scales.	1 year	4
38	Laminar Air flow	1 year	1
39	Autoclave, steam, bench top, 95L, electrical	1 year	1
40	Neonate Cooler	1 year	1
41	Air Conditioning with (AHU) with HEPA filter with positive air pressure and one room with negative pressure with minimum 20 air changes per hour with class 10000 standards	5 years	1
42	Online UPS for all the NICU beds with 30min backup -	1 year	1
43	Washing Machine	1 year	1
44	Dress Hangers	N/A	6
45	Decorators	N/A	1
46	Induction Stove	1 year	1
47	Basic Utensils	N/A	1
48	Microwave Oven	1 year	1
49	Refrigerator	5 years	1
50	RO Machine - 8 Ltrs	1 year	1
51	Television - 32"	1 year	1
52	Computer with Printer	1 year	1
53	Fumigation Dispenser	1 year	1
54	Centrifuge	1 year	1
55	Binocular Microscope	1 year	1
56	Ophthalmoscope	1 year	2
57	Neopuff	1 year	1
58	Oxygen Low Flow Meter with 0.1L/min	1 year	15

7. **Performance Security:** The supplier shall submit performance security by way of security deposit or bank guarantee in the form prescribed for the 5% of the total value of the purchase order, valid upto sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations. Necessary preventive maintenance reports shall be submitted at the end of warranty period with working satisfactory certification from HLL/Hospital.
8. **CAMC:** Comprehensive Annual Maintenance Contract as per the prevailing rate as mentioned below will be applicable for the purchase orders issued for Five (5) years after completion of warranty period.

9. **Purchaser Rights:** Purchaser reserves all rights to cancel the purchase order issued by the purchaser at any time without assigning any reasons.

10. **Applicable Law**

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

11. Resolution of disputes

If the parties fail to resolve their dispute or difference by such mutual consultations within twenty one days of its occurrence the same shall be referred for arbitration to a Sole arbitrator to be appointed by the C&MD, of the Purchaser Arbitration shall be conducted as per the provisions of the Arbitration and Conciliation Act 1996 or any statutory modification or re-enactment thereof for the time be in force. The arbitrator shall give a reasoned award.

12. The award of the arbitrator shall be final and binding on the parties to this contract. The venue of arbitration shall be Thiruvananthapuram, Kerala, India and the language of the proceedings shall be English

13. Subject to above mentioned Arbitration Clause, any dispute or differences arising out of this Agreement shall fall under the exclusive jurisdiction of courts at Thiruvananthapuram.

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

Signed, Sealed and Delivered by the

said..... (For the *Purchaser*)

in the presence of

Signed, Sealed and Delivered by the

said(For the *Supplier*) (Signature, Name, Designation and

Address with Office seal)

in the presence of

|1) (Signature, Name and Address of witness)

| (Signature, Name and Address of witness

SECTION – XV
CONTRACT FORM – B
CONTRACT FORM FOR COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT

This AGREEMENT made on this day ----- between HLL Lifecare Ltd (HLL)/ All India Institutes of Medical Sciences (AIIMS), represented by the _____ having his Office at _____ (hereinafter called HLL/AIIMS) of one part and M/s. _____ represented by ----- aged ----- years, having his / her Office at ----- (hereinafter called “_____”) of the other part. (The term *HLL/AIIMS* and _____, wherever the context appear and unless, it is specifically excluded, shall mean and exclude its successor, assign administrators and executors).

WHEREAS the _____ had supplied and installed _____ number _____ at _____ against the supply order placed by HLL vide P.O. No. _____ and as per provisions of the tender and supply order _____ should provide Comprehensive Annual Maintenance Services for this equipment (herein after called services) and the purchaser accepted & approved the rates and terms & conditions offered by _____ in the financial bid for the services to which this agreement made for.

NOW THE AGREEMENT WITNESS AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract / order referred to above.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz:
 - a. the terms and conditions stipulated in *Purchaser’s* tender document ref. _____, Dt. _____ for the supply of the equipment.
 - b. the Bid Form and Price Schedule submitted by _____ for supply and providing the maintenance Services, against the tender.
 - c. the supply order for supply and installation of the equipment vide Ref No. _____ Dt. _____ placed by Purchaser.
3. The Contract of Annual Comprehensive Maintenance is hereby concluded as under:

Sr. No	Name of Equipment	Qty	Total CAMC Amt in Rs. (Excl applicable GST)				
			6 th year	7 th year	8 th year	9 th year	10 th year

4. Payments shall be made by HLL/AIIMS to Supplier as per the Purchaser’s tender document, _____ hereby covenant with the *Purchaser* to provide the Comprehensive Annual Maintenance

Services in conformity in all respects with the provisions of the *Contract* and the orders referred above.

5. The rates indicated cover all charges towards cost of spare parts, transportation and installation charges, cost of travel, boarding, lodging and expenses related to service personnel and other expenses related to maintenance of the equipment. No claim whatsoever will be entertained.
6. It is agreed that the rates indicated hereunder will be firm during the contract period and the contract period is for 5 years from _____.(date of expiry of 5 year warranty period)
7. Performance security shall be submitted by way of Bank Guarantee valid till __[(fill the date) 2 months after expiry of entire CAMC period] for an amount of Rs. _____ [(fill amount) equivalent to 5 % of the cost of the total CAMC value.
8. It is agreed that _____ will provide preventive maintenance call atleast one visit in four months and the gap between any two Preventive Maintenance should not be less than 90 days and not more than 115 days and attend all breakdown calls, within the time limit prescribed in the tender. In addition, all breakdown calls shall be attended to immediately and all major repairs shall be rectified within 7 calendar days from the date of intimation, as per tender, failing which, a penalty of Rs.50,000/- per day thereof is leviable until the equipment is repaired and commissioned to the satisfaction of the end user, For this purpose you shall carry sufficient inventories to assure prompt replacement of defective parts as per tender.
9. It is agreed that the failure to attend to any breakdown calls within the prescribed time limit will attract penalty as stipulated in the CAMC order.
10. Uptime guarantee of 95% shall be maintained by _____ on annual basis taking into consideration the number of actual working hours and working days of the centre.
11. Purchaser reserves its rights to get the maintenance services done through any other agency at your full risk and cost and also to take appropriate penal action including termination of the contract, if the performance of services is found not satisfactory and below the 95% uptime level.
12. All disputes arising out of this agreement would be settled by arbitration by a sole arbitrator to be appointed by the CMD Of Purchaser
13. All disputes arising out of this agreement will be subjected to the jurisdiction of Thiruvananthapuram only.

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

Signed, Sealed and Delivered by the

Said (For the AIIMS)

in the presence of

Signed, Sealed and Delivered by the

Said (For _____)

in the presence of

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

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

- (i) Contract No. & date : _____
- (ii) Supplier’s Name : _____
- (iii) Consignee’s Name & Address with
telephone No. & Fax No. : _____
- (iv) Name of the item supplied : _____
- (v) Quantity Supplied : _____
- (vi) Date of Receipt by the Consignee: _____
- (vii) Name and designation of Authorized
Representative of Consignee : _____
- (viii) Signature of Authorized
Representative of Consignee with
date : _____
- (ix) Seal of the Consignee : _____

SECTION – XVII
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/Transporter: _____

(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 No.
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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:

He has not adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specifications'.

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 in respect of the installation of the equipment(s)/plant(s).

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.

Explanatory notes for filling up the certificate:

He has adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specification'.

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 in respect of the installation of the equipment(s)/plant(s).

Training of personnel has been done by the supplier as specified in the contract.

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.

SECTION XVIII

CONSIGNEE ADDRESS

**All India Institute of Medical Sciences
Great Eastern Rd, AIIMS Campus,
Tatibandh, Raipur,
Chhattisgarh 492099**

SECTION – XIX

CHECK LIST

Name of Tenderer:

Name of Manufacturer:

Sl No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks
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. a.	Have you enclosed duly filled Tender Form as per format in Section IX?			
b.	Have you enclosed Power of Attorney in favour of the signatory?			
3. 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?			
4. 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?			
5.	Have you submitted manufacturer's / distributors authorization as per Section XIV?			
6.	Have you submitted prices of goods, CAMC etc. in the Price Schedule as per Section X?			
7.	Have you kept validity of 120 days from the Techno Commercial Tender Opening date as per the TE document?			
8. a.	In case of Indian Tenderer, have you furnished Income Tax Account No. as allotted by the Income Tax Department of Government of India?			

Sl No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks
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?			
9.	Have you intimated the name and full address of your Banker (s) along with your Account Number			
10.	Have you fully accepted payment terms as per TE document?			
11.	Have you fully accepted delivery period as per TE document?			
12.	Have you submitted the certificate of incorporation?			
13.	Have you accepted the warranty as per TE document?			
14.	Have you accepted terms and conditions of TE document?			
15.	Have you furnished documents establishing your eligibility & qualification criteria as per TE documents?			
16.	Have you furnished relevant pages of Annual Report (Balance Sheet and Profit & Loss Account) regarding turnover and profit for last three years prior to the date of Tender opening?			

Date:

Name

Signature

Stamp and full address