

TENDER DOCUMENT
(NOT TRANSFERABLE)

Tender Ref.No. 47/MPPHSCL/Medical college-Equip/2015, DT 14.10.2015

Madhya Pradesh Public Health Services Corporation Limited
(A Government of Madhya Pradesh Undertaking)

Invites

**Online Tender for the Annual Rate Contract of equipments/Instruments to be Supplied & Installed at Various Hospitals of Government of Madhya Pradesh for a Period of one Year
(List- 3) Equipment for
05 Clinical Departments of Medical College Associated Hospitals:-
Anaesthesia, Obstetrics & Gynaecology, ENT, Physiotherapy and
Casualty Departments)**

Madhya Pradesh Public Health Services Corporation Limited,
(A Government of Madhya Pradesh Undertaking)
Tilhan Sangh Campus, Arera Hills Bhopal 462011 (M.P.)
Phone: 0755-2527911
Website: www.health.mp.gov.in
Email id: procmpphscl@gmail.com

[For any further clarifications / queries on e-Tendering, e-Procurement Cell can be contacted at:
Helpdesk: TCS helpdesk, 5th Floor , Corporate Zone, DB Mall , Arera Hills , Bhopal; Toll Free
Nos.: **1800 2588 684** Mobile No. 8989685065 e-mail: eproc_helpdesk@mpsdc.gov.in]

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SECTION I

NOTICE INVITING GLOBAL TENDERS (NIT)

**Madhya Pradesh Public Health Services Corporation Limited
(A Government of Madhya Pradesh Undertaking)**

Tilhan Sangh Campus, Arera Hills Bhopal - 462011.

Phone: 0755-2527911

Website: www.health.mp.gov.in

Tender Enquiry No.: 47/MPPHSCL/Medical College Equip/2015

Dated:-14/10/2015

Managing Director, MPPHSCL, for and on behalf of Department of Public Health & Family Welfare, Govt. of Madhya Pradesh invites online national tender, for **(List- 3) 136 Equipment for 05 Clinical Departments of Medical College Associated Hospitals: - Anaesthesia, Obstetrics & Gynaecology, ENT, Physiotherapy and Casualty Departments** from eligible and qualified Bidders for supply, installation, testing and commissioning of Equipment as per details given below:

Name & List of 136 Equipment required for Anaesthesia, Obstetrics & Gynaecology, ENT, Physiotherapy and Casualty Departments Approved by Technical Expert Committee of CPC formed by Govt. for Medical Colleges & Associated Hospitals Enclosed with the indent form.

Schedule No.	Description	Quantity (No.)	Estimated Cost (INR)
1	Anaesthesia	33	
2	Obstetrics & Gynaecology	18	
3	ENT	44	
4	Physiotherapy	38	
5	Casualty	03	
	TOTAL	136	As per Budget Head Allocation in Equipment & Instruments head of DME

1. Note: expected % variation in indicative quantity mentioned in the table above **20 %**.

The Schedule of E-Tendering Activities are as under:

Sr. No.	Activity	Date and Time
1	Start of Purchase of Tender Document online	14/10/2015 at 18:30 Hrs
2	End of Purchase of Tender Document online	30/11/2015 at 15:00 Hrs
3	Date and time of pre-bid meeting Corporation Office Tilhan Sangh Campus, Arera Hills Bhopal	29/10/2015 at 12:00 Hrs
4	End of Bid Submission –online & Physical bid submission only at Corporation Office Tilhan Sangh Campus, Arera Hills Bhopal	30/11/2015 at 15:30 Hrs
5	Opening of Technical Bid (Envelope-A) online. Corporation Office Tilhan Sangh Campus, Arera Hills Bhopal	30/11/2015 at 16:00 Hrs

- (1) Tender documents may be viewed or purchased online by interested and eligible bidders from the website www.mpeproc.gov.in on the above mentioned dates after paying Tender fee of Rs.5,000/- and Processing Fee, as applicable. Tender document may also be viewed from the website www.health.mp.gov.in.
- (2) Bidders are required to submit their tenders online at www.mpeproc.gov.in on or before the key dates given above. The Physical copy of the Technical Bid along with original EMD/Bid Security of Rs.3,00,000 (irrespective of no of schedules quoted) should also be submitted at the address below latest by 30/11/2015 at 15:30 Hrs..
- (3) All further notifications/amendments, if any shall be posted on www.mpeproc.gov.in and www.health.mp.gov.in only. No separate communication shall be made with individual Bidders.

**Managing Director,
Madhya Pradesh Public Health Services
Procurement Corporation (MPPHSC) Limited
Bhopal**

SECTION - II

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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) “Consignee” means the Hospital/Institute/Medical College/ person to whom the goods are required to be delivered as specified in the Contract. If the goods are required to be delivered to a person as an interim consignee for the purpose of despatch to another person as provided in the Contract then that “another” person is the consignee, also known as ultimate consignee.
- (ii) “Contract” means the written agreement entered into between the Tender Inviting Authority and/or consignee and the supplier, together with all the documents mentioned therein and including all attachments, annexure etc.
- (iii) “Day” means calendar day.
- (iv) “Earnest Money Deposit” (EMD) means bid security/ monetary or financial guarantee to be furnished by a bidder along with its tender.
- (v) “Goods” means the articles, material, commodities, furniture, fixtures, raw material, spares, instruments, machinery, equipment, medical equipment, associated software, industrial plant etc. which the supplier is required to supply to the Tender Inviting Authority under the contract.
- (vi) “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.
- (vii) “Ordering Authority” OR “Purchaser” means the competent authorities of DoPH& FW, Medical Education, GAS Rahat Departments of Government of Madhya Pradesh, as the case may be (herein after referred to as “Ordering Authority”), , in their respective jurisdictions, purchasing goods and services as incorporated in the Tender Enquiry document, namely:
 - a. Tender Inviting Authority/Managing Director, MPPHSCL
 - b. Chief Medical & Health Officer
 - c. Chief Medical & Health Officer, Gas Rahat
 - d. Civil Surgeon cum Hospital Superintendent
 - e. Superintendent, Special Hospitals
 - f. Superintendents, Gas Rahat hospitals
 - g. Superintendent cum Joint Director Medical College (Specifically)
 - h. Dean Gandhi Medical College, Bhopal
 - i. Dean Mahatma Gandhi Memorial Medical College, Indore
 - j. Dean Gajra Raja Medical College, Gwalior.
 - k. Dean NSCB Medical College, Jabalpur.
 - l. Dean S.S.Medical College, Rewa.
 - m. Dean Bundelkhand Medical College Sagar.

[Please mention name of authority, entitled to place purchase orders along with contact details-Medical college Authorities as detailed above as per R/C, rest Authorities to see their budget head ,see specifications(Whether tertiary level equipment is suitable) and seek permission from Authority before deciding on Procurement on R/C]

- (viii) “Performance Security” means monetary or financial guarantee to be furnished by the successful bidder for due performance of the contract placed on it.
- (ix) “Services” means services allied and incidental to the supply of goods, such as transportation, installation, testing, commissioning, provision of technical assistance, training, after sales

service, maintenance service and other such obligations of the supplier covered under the contract.

- (x) "Specification" means the document/standard that prescribes the requirement with which goods or service has to conform.
- (xi) "Supplier" means the individual or the firm supplying the goods and services as incorporated in the contract.
- (xii) "Tender Inviting Authority" is Managing Director, Madhya Pradesh Public Health Services Procurement Corporation Limited, Ground Floor, Gramin Bank Building, Jail Road, Arera Hills, Bhopal (MP).
- (xiii) "Tender" means Bids / Quotation / Tender received from a Firm / Bidder / Bidder.
- (xiv) "Bidder" means Bidder/ the Individual/Firm or company submitting Bids / Quotation / Tender
- (xv) "Indenting Authority" means the Department of Govt. of Madhya Pradesh who sends its indent to MPPHSCL for procurement of goods and related services.

1.3 Abbreviations:

- (i) "BG" means Bank Guarantee
- (ii) "CD" means Custom Duty
- (iii) "CENVAT" means Central Value Added Tax
- (iv) "CMC" means Comprehensive maintenance Contract (labour, spare and preventive/ breakdown maintenance)
- (v) "CST" means Central Sales Tax
- (vi)
- (vii) "DP" means Delivery Period
- (viii) "ED" means Excise Duty
- (ix) "GCC" means General Conditions of Contract
- (x) "GIT" means General Instructions to Tenderers
- (xi) "LC" means Letter of Credit
- (xii) "NIT" means Notice Inviting Tenders.
- (xiii) "RR" means Railway Receipt
- (xiv) "SCC" means Special Conditions of Contract
- (xv) "SIT" means Special Instructions to Bidders
- (xvi) "TE Document" means Tender Enquiry Document
- (xvii) "VAT" means Value Added Tax
- (xviii) "AERB" means Atomic Energy Regulatory Board
- (xix) "DoPH&FW" means Department of Health & Family Welfare, Govt. of MP
- (xx)
- (xxi) "DME" means Department of Medical Education, Govt. of M.P.
- (xxii) "HOD" means Head of Department
- (xxiii) "OA" means Ordering Authority
- (xxiv) "TIA" means Tender Inviting Authority
- (xxv) "MPPHSCL" means Madhya Pradesh Public Health Services Corporation Limited
- (xxvi) "INCOTERMS" means International Commercial Terms as on the date of Tender opening.
- (xxvii) "BL" means Bill of Lading
- (xxviii) "FOB" means Free on Board
- (xxix) "FOR" means Free on Rail
- (xxx) "CIP (Destination)" means Carriage and Insurance Paid up to named port of destination
- (xxxi) "DDP" means Delivery Duty Paid named place of destination (consignee site)
- (xxxii) "CIF" means Cost, Insurance and Freight

2. Introduction

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

3. Availability of Funds

- 3.1 Expenditure to be incurred for the proposed purchase will be met from the funds available with the Indenting Authority.

4. Language of Tender

- 4.1 The tender submitted by the bidder and all subsequent correspondence and documents relating to the tender exchanged between the bidder and the Tender Inviting Authority, shall be written in English language. However, the language of any printed literature furnished by the bidder in connection with its tender may be written in any other language provided the same is accompanied by an English translation and, for the purpose of interpretation of the tender, the English translation shall prevail.
- 4.2 The tender submitted by the bidder and all subsequent correspondence and documents relating to the tender exchanged between the bidder and the Tender Inviting Authority, may also be written in 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 Bidders

- 5.1 This invitation for tenders is open to all manufacturers located in India and Indian subsidiaries of foreign manufacturers or authorised importers of foreign manufactures 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 mined, grown, produced, or manufactured or from where the related services are arranged and supplied.

7. Tendering Expense

- 7.1 The bidder 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 subsequently processing the same. The Tender Inviting Authority will, in no case be responsible or liable for any such cost, expenditure etc regardless of the conduct or outcome of the tendering process.

B. TENDER ENQUIRY DOCUMENTS

8. Content of Tender Enquiry Documents

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

- Section II – General Instructions to Bidders (GIT)
- Section III – Special Instructions to Bidders (SIT)
- Section IV – General Conditions of Contract (GCC)
- Section V – Special Conditions of Contract (SCC)
- Section VI – List of Requirements
- Section VII – Technical Specifications
- Section VIII – Bidder Information Form
- Section IX – Qualification Criteria
- Section X – Tender Form
- Section XI – Price Schedules
- Section XII – Manufacturer’s Authorization Form
- Section XIII – Bank Guarantee Form for EMD
- Section XIV – Bank Guarantee Form for Performance Security/CMC Security
- Section XV – Contract Forms A & B
- Section XVI – Proforma of Consignee Receipt Certificate
- Section XVII – Proforma of Final Acceptance Certificate by the consignee
- Section XVIII – Check List for the Bidders

8.2 The details of the required goods and services, the terms and 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 bidders are expected to examine all such details to proceed further.

9. Amendments to Tender Documents

9.1 At any time prior to the deadline for submission of tenders, the Tender Inviting Authority may, for any reason deemed fit by it, modify the Tender Documents by issuing suitable amendment(s) to it.

9.2 Such an amendment will be notified online on www.mpeproc.gov.in and/or www.health.mp.gov.in and same shall be binding to all bidders. All prospective bidders are advised to see above websites regularly for information. Tender Inviting Authority shall not be responsible in any manner if prospective bidders miss any notification(s) placed on above website(s).

9.3 In order to provide reasonable time to the prospective bidders to take necessary action in preparing their tenders as per the amendment(s), the Tender Inviting Authority 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 bidder requiring any clarification or elucidation on any issue of the Tender Documents may take up the same with the Tender Inviting Authority in writing, by post or by e-mail (cgmt.mpphsc@gmail.com) The Tender Inviting Authority will respond in writing to such request provided the same is received by the Tender Inviting Authority not later than seven days prior to the prescribed date of submission of tenders.

10.2 Interested eligible bidders may also depute its authorized representative to attend pre-bid meeting at the scheduled date and time given in Section-I of this document. Attending pre-bid meeting by prospective bidder(s) is not mandatory.

10.3 The purpose of pre-bid meeting is to clarify doubts, if any and to provide responses to the clarifications sought by prospective bidders regarding terms and conditions, technical specifications and other provisions given in the tender document. The clarifications so sought by prospective bidders during pre-bid meeting shall be appropriately responded and minutes of pre-bid meeting

along with written responses / clarifications shall be uploaded on the websites www.mpeproc.gov.in and www.health.mp.gov.in.

C. PREPARATION OF TENDERS

11. Documents Comprising the Tender

11.1 The **Two Bid Online System**, i.e. “Technical Bid” (Cover-A) and “Financial Bid” (Cover-C) prepared by the bidder, shall comprise the following:

A) **Techno – Commercial Tender – Un-priced Tender (Cover-A)**

- i) Earnest money furnished in accordance with GIT Clause 19;
- ii) Tender Form as per Section X (without indicating any prices).
- iii) Documentary evidence, as necessary in terms of GIT Clauses 5 and 17 establishing that the bidder is eligible to submit the tender and also qualified to perform the contract if its tender is accepted.
- iv) Bidders submitting bid for goods manufactured by other manufacturers shall furnish Manufacturer’s Authorization Form (in the format given in Section-XII)
- v) Power of Attorney in favour of signatory of Tender Documents and signatory of Manufacturer’s Authorization 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 bidder conform to the requirement of the Tender Documents.
- vii) Performance Statement as per section IX along with relevant copies of orders and end users’ satisfaction certificate in the desired format.
- viii) Certificate of Incorporation of the Bidder in the country of origin.
- ix) Checklist as per Section XVIII.

B) **Price Tender (to be submitted online, no physical copy) – (Cover-C)**

The Price Schedule as per format given in Section XI (as appropriate) should filled and submitted **online only** with all the details including make, model etc. of the goods and services offered.

11.2 The authorized signatory of the bidder must sign on the physical copy of Tender Documents duly stamped at appropriate places and initial all the 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.

12. Tender currencies

12.1 The bidder supplying indigenous or already imported goods shall quote only in Indian Rupees.

12.2 Tenders, where prices are quoted in any other way shall be treated as non-responsive and rejected.

13. Tender Prices

13.1 The Bidder shall indicate on the Price Schedule provided under Section XI all the specified components of prices shown therein including the unit prices and total tender prices of the goods and services it proposes to supply/perform against the requirement. All the columns shown in the price schedule should be filled up as required. If any column does not apply to a bidder, same should be filled as “00” by the bidder.

13.2 If there is more than one Schedule in the List of Requirements, the bidder has the option to submit its Bid for any one or more Schedules. However, while quoting for a schedule, the bidder shall quote for the complete requirement of goods and services as specified in that particular schedule.

13.3 While filling up the columns of the Price Schedule, the following aspects should be noted for compliance:

13.3.1 For domestic goods or goods of foreign origin located within India, the prices in the corresponding price schedule shall be entered separately in the following manner:

- a) the price of the goods, quoted ex-factory/ ex-showroom/ ex-warehouse/ off-the-shelf, as applicable, including all taxes and duties like sales tax, CST/VAT, CENVAT, Custom Duty, Excise Duty etc. already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex-showroom etc;
- b) any sales or other taxes and any duties including excise duty, which will be payable on the goods in India if the contract is awarded;
- c) charges towards Packing & Forwarding, Inland Transportation, Insurance (local transportation and storage) would be borne by the Supplier from warehouse to the consignee site for a period including 3 months beyond date of delivery, Loading/Unloading and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and Price Schedule;
- d) the price of incidental services, as mentioned in List of Requirements and Price Schedule;
- e) the prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
- f) the price of annual CMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.

13.5 Additional information and instruction on Duties and Taxes:

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

13.5.2 Excise Duty:

- a) Prices are inclusive of Excise duty. If a Bidder chooses to mention the excise duty in the price bid and also desires to be reimbursed for variation, if any, in the excise duty during the time of supply, the bidder must clearly mention the same and also indicate the rate and quantum of excise duty included in its price. Failure to indicate all such details in clear terms may result in rejection of that tender.
- c) Subject to sub clauses 13.4.2 (a), any change in excise duty upward/downward as a result of any statutory variation in excise duty taking place within contract terms shall be allowed to the extent of actual quantum of excise duty paid by the supplier. In case of downward revision in excise duty, the actual quantum of reduction of excise duty shall be reimbursed to the Purchaser/Ordering Authority by the supplier. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the supplier.

13.5.3 Sales Tax:

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

13.5.4 Octroi Duty and Local Duties & Taxes:

Normally, goods to be supplied to government departments against government contracts are exempted from levy of town duty, Octroi duty, terminal tax and other levies of local bodies. However, on some occasions, the local bodies (like town body, municipal body etc.) as per their regulations allow such exemptions only on production of certificate to this effect from the concerned government department. Keeping this in view, the supplier shall ensure that the stores to be supplied

by the supplier against the supply order (s) placed by the Ordering Authority are exempted from levy of any such duty or tax and, wherever necessary, obtain the exemption certificate from the Ordering Authority/ Purchaser.

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

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 indicating all price components by the bidders as required in the 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 bidder on any other terms offered.

14. Indian Agent

Deleted

15. Firm Price

15.1 Unless otherwise specified in the SIT, prices quoted by the bidder 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. All those bidders shall be disqualified for all quoted products if any person (s) (i.e partner (s) in case of a partnership firm, member (s) in case of a company or the proprietor in case of a proprietorship firm, as the case may be) holds 20% or more share (ownerships) in more than one bidding entities who have quoted for same product (s)".

16.2 If a bidder submits bid on behalf of the Principal / OEM (if allowed in the tender), the same bidder shall not submit a bid on behalf of another Principal / OEM in the same tender for the same item/product. In a tender either the bidder on behalf of the Principal / OEM or Principal/OEM can bid but both cannot bid simultaneously for the same item/product in the same tender.

16.2 Bidders are requested to quote their most suitable model meeting tendered technical specifications. Alternate models are not allowed to quote.

17 Documents Establishing Bidder's Eligibility and Qualifications

17.1 Pursuant to GIT clause 11, the bidder 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) Manufacturer or Indian subsidiary of foreign manufacturer has the required financial, technical, production and after sales services capability necessary to perform the contract and, further, it meets the qualification criteria incorporated in the Section IX in these documents.

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

18.1 The bidder 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 Tender Inviting Authority in the Tender Documents. For this purpose the bidder shall also provide a clause-by-clause statement of compliance on the technical specifications and other technical details incorporated by the Tender Inviting Authority in the Tender Documents vis-à-vis the technical details of the offered product 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 Tender Inviting Authority and that offered by the bidder, the bidder shall list out the same in a chart form without ambiguity and provide the same along with its tender.
- 18.3 If a bidder furnishes wrong and/or misguiding/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 Tender Inviting Authority in this regard.
- 18.4 Tender Inviting Authority reserves the right to call the Bidder to demonstrate its quoted model (s) before the Tender Evaluation Committee within 7-15 days from the date of issuing letter requesting demonstration.

19. Earnest Money Deposit (EMD)

- 19.1 Pursuant to GIT clauses 11.1 A) the bidder shall furnish along with its tender, earnest money of Rs.3,00,000/- (Rupees Three lakh only).
- 19.2 No exemption is allowed in EMD. Without valid EMD, bid shall be rejected
- 19.3 The earnest money shall be in the form of Bank Guarantee issued from any scheduled bank in India. In case of Bank Guarantee furnished from a Bank outside India (i.e. foreign Bank), it should be authenticated and countersigned by any nominated Bank in India by way of back-to-back counter guarantee and the same should be submitted along with the bid.
- 19.4 The Bank Guarantee should be pledged to Managing Director, Madhya Pradesh Public Health Services Corporation Limited, payable at Bhopal and as per the format specified under Section XIII in these documents.
- 19.4 The Bank Guarantee shall be valid for 180 days from techno – commercial tender opening date.
- 19.5 Unsuccessful bidders' earnest money will be returned to them without any interest, after expiry of the tender validity period, but not later than thirty days after conclusion of the resultant contract. Successful bidder's earnest money will be returned without any interest, after receipt of performance security from that bidder.
- 19.6 Earnest Money is required to protect the Tender Inviting Authority against the risk of the Bidder's conduct, which would warrant the forfeiture of the EMD. Earnest money of a bidder will be forfeited, if the bidder 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 Tender Inviting Authority. The successful bidder's earnest money will be forfeited without prejudice to other rights of Tender Inviting Authority if it fails to furnish the required performance security within the specified period.

20. Tender Validity

- 20.1 If not mentioned otherwise in the SIT, the tenders shall remain valid for acceptance for a period of 120 days (One hundred and twenty days) after the date of techno-commercial tender opening prescribed in the Tender Documents. Any tender valid for a shorter period shall be treated as unresponsive and rejected.
- 20.2 In exceptional cases, the bidders may be requested by the Tender Inviting Authority to extend the validity of their tenders up to a specified period. Such request(s) and responses thereto shall be conveyed by post or by e-mail. The bidders, who agree to extend the tender validity, are to extend the same without any change or modification of their original tender and they are also to extend the validity period of the EMD accordingly. A bidder, however, may not agree to extend its tender validity without forfeiting its EMD.
- 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 Tender Inviting Authority, the tender validity shall automatically be extended up to the next working day.

21. Signing and Sealing of Tender

- 21.1 The Bidders shall submit their tenders online as per key schedule dates indicated and physical copy of Technical Bid as per the instructions contained in GIT Clause 11.
- 21.2 Tender Document seeks tender submission by following two Tender Online System, in two parts i.e. First part - “Technical Bid (EMD & Technical documents) – **Envelope-A**” and second part - “Financial Bid’ – **Envelope-C**”
- 21.3 The bidder should also submit physical copy of Technical Bid duly typed and signed by the bidder’s authorized signatory who has been duly authorized to bind the bidder to the contract. The letter of authorization shall be by a written power of attorney, which shall also be furnished along with the tender. The Bidder shall submit original EMD along with physical copy of all letters, certificates, testimonials, forms etc. (self-certified) including original catalogue (s) of model quoted as uploaded online on or before the closing date of submission of tender document..
- 21.3 The scanned copy of the earnest money instrument (bank guarantee) should be uploaded online during bid submission
- 21.4 All the pages of the physical Technical Bid shall be duly signed at the appropriate places including printed literature, if any. The tender shall not contain any erasure or overwriting, except as necessary to correct any error made by the bidder and, if there is any such correction; the same shall be initialled by the person(s) signing the tender.
- 21.5 The bidder is to seal the physical Technical Bid in an envelope and writing the address of the Tender Inviting Authority and the tender reference number on the envelopes. The sentence “NOT TO BE OPENED” before _____ (The bidder is to put the date & time of tender opening) are to be written on this envelope. If the envelope is not sealed and marked properly as above, the Tender Inviting Authority will not assume any responsibility for its misplacement, premature opening, late opening etc.

D. SUBMISSION OF TENDERS

22. Submission of Tenders

- 22.1 Unless otherwise specified, tenders will be submitted online as per the Key Dates in the Notice published on the website <http://www.mpeproc.gov.in> For online bidding scan copy of needful documents in proper resolution should be uploaded online. Bidders are required to sign their bids online using Class III - Digital Certificates only, Contractors are advised to obtain the same at the earliest. For further information, Contractors are requested to read Users Guide available in M.P. Government’s E-Procurement Portal <https://www.mpeproc.gov.in/>. The bidders may also contact E-Procurement Cell / Helpdesk at Toll Free No. 1800-258-8684 and e-mail: eproc_helpdesk@mepsdc.gov.in
- 22.2 Physical technical bid (without price bid) along with original EMD in an envelope super scribing “Tender No. _____ for supply of _____” due on _____ [due date and time of submission of Technical Bid]” should be addressed and submitted on or before the date & time of online opening of technical bid and shall be submitted to “Managing Director, Madhya Pradesh Public Health Services Corporation Limited, 1st Floor, OILFED BUILDING ,Arera Hills , Bhopal – 462 011. The officer receiving the physical documents shall give the bidder an official receipt duly signed with date and time.
- 22.4 The Bidders must ensure that they deposit their physical technical bid along with original EMD not later than the closing time and date specified for submission of tenders. In the event of the specified date for submission of tender falls on / is subsequently declared a holiday or closed day for the Tender Inviting Authority, the physical technical bid and original EMD will be received up to the appointed time on the next working day.

23. Late Tender

- 23.1 This is an e-tender and all documents including price details are to be submitted on the mentioned portal. However, physical copy of Techno-Commercial bid is required to be submitted which shall be accepted on or before the time as mentioned at Section I, Sub-section (2). Physical copy shall be accepted before the date and time of online tender opening but not beyond that.

24. Alteration and Withdrawal of Tender

- 24.1 The bidder, after submitting its tender online, is not permitted to alter / modify its tender.
24.2 No tender should be withdrawn after the deadline for submission of tender and before expiry of the tender validity period. If a bidder withdraws the tender during this period, it will result in forfeiture of the earnest money furnished by the bidder in its tender.

E. TENDER OPENING

25. Opening of Tenders

- 25.1 The **Technical Bid (Envelope-A)** shall be opened online at the first instance, at the prescribed time and date as indicated in NIT followed by opening of physical copy of the technical bids at the specified date and time and at the specified place as indicated in the NIT. In case the specified date of tender opening falls on / is subsequently declared a holiday or closed day for the Tender Inviting Authority, the tenders will be opened at the appointed time and place on the next working day.
- 25.2 Authorized representatives of the bidders, who have submitted tenders on time may attend the tender opening provided they bring with them letters of authority from the corresponding bidders. The tender opening official(s) will prepare a list of the representatives attending the tender opening. The list will contain the representatives' names, signatures, e-mail Id, contact no. and corresponding Bidders' names and addresses.
- 25.3 During the Technical Bid opening, the Bid opening official(s) will read the salient features of the bids like brief description of the goods offered, delivery period, Earnest Money Deposit and any other special features of the tenders, as deemed fit by the tender opening official(s).
- 25.4 Thereafter, in the second stage, the **Financial Bid (Envelope-C)** of only the technically acceptable offers (as decided in the first stage) shall be opened for further scrutiny and evaluation on a date notified online after the evaluation of the Technical bid. The prices of the goods offered by the technically qualified bidders shall be read out and recorded, and provisional rates shall be uploaded on website of the Purchaser and e-procurement portal.

F. SCRUTINY AND EVALUATION OF TENDERS

26. Basic Principles

- 26.1 Tenders will be evaluated on the basis of the terms & conditions already incorporated in the TE document and the terms & conditions mentioned therein. No new condition will be brought in while scrutinizing and evaluating the tenders. TIA will not enter into any correspondence on the issue.

27. Preliminary Scrutiny of Tenders

- 27.1 The Tender Inviting Authority 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 opening and evaluation of Price Tenders, pursuant to GIT Clause 34, the Tender Inviting Authority will determine the substantial responsiveness of each Tender to the TE Document. For purposes of these clauses, a substantially responsive Tender is one, which conforms to all the terms and conditions of the TE 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 Tender Inviting Authority'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 Tender Inviting Authority and cannot subsequently be made responsive by the Bidder by correction of nonconformities.
- 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 Documents. 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 X (signed and stamped) not uploaded and physically not submitted
 - (ii) Tender validity is shorter than the required period.
 - (iii) Required EMD (Amount etc.) have not been provided.
 - (iv) Bidder has not agreed to give the required performance security.
 - (v) Goods offered are not meeting the tender enquiry specification.
 - (vi) Manufacturer's Authorisation Certificate not enclosed by a bidder who is Importer/Dealer (if Importer/Dealer(s) are allowed to quote by the TIA)
 - (vii) Bidder has not agreed to other essential condition(s) specially incorporated in the tender enquiry like terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism applicable law.
 - (viii) Poor/ unsatisfactory past performance.
 - (ix) Bidders who stand deregistered/banned/blacklisted by any Govt. Authorities.
 - (x) Bidder is not eligible as per GIT Clauses 5.1 & 17.1.
 - (xi) Bidder has not quoted for the entire quantity as specified in the List of Requirements in the quoted schedule.

Note: The above mentioned aspects are descriptive and not exhaustive and a tender can be declared non-responsive for non-fulfilment of any essential condition culled out in the instant document in the considered view of the Tender Inviting Authority and the opinion of the Tender Inviting Authority shall be final and conclusive.

28. Minor Infirmary/Irregularity/Non-Conformity

- 28.1 If during the preliminary examination, the Tender Inviting Authority find any minor informality and/or irregularity and/or non-conformity in a tender, the Tender Inviting Authority 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 bidders. Wherever necessary, the Tender Inviting Authority will convey its observation on such 'minor' issues to the bidder by registered/speed post etc. asking the bidder to respond by a specified date. If the bidder 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 bidder, 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 Tender Inviting Authority feels that the bidder 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 Tender Inviting Authority, there is any such arithmetical discrepancy in a tender, the same will be suitably conveyed to the bidder by registered / speed post / e-mail. If the bidder does not agree to the observation of the Tender Inviting Authority, the tender is liable to be ignored.

30. Discrepancy between online tender documents and physical documents

30.1 In case any discrepancy is observed between the online documents, text etc. and that in the physically submitted documents, text etc. of the same tender set then online documents, text etc. shall prevail. Here also, the Tender Inviting Authority will convey its observation suitably to the bidder by registered / speed post / e-mail and, if the bidder does not accept the Tender Inviting Authority's observation, that tender will be liable to be ignored.

31. Qualification Criteria

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

32. Conversion of tender currencies to Indian Rupees

32.1 In case the TE document permits the bidders to quote their prices in different currencies, all such quoted prices of the respective bidders will be converted to a single currency viz. Indian Rupees for the purpose of equitable comparison and evaluation considering "SBI selling exchange rate" as on the due date of opening of Price Bids.

1. Deleted

33. Schedule-wise Evaluation

33.1 In case the List of Requirements contains more than one schedule, the responsive tenders will be evaluated and compared separately for each schedule. The tender for a schedule will not be considered if the complete requirements prescribed in that schedule are not included in the tender.

34. Comparison of Tenders

34.1 Unless mentioned otherwise in Section – III – Special Instructions to Bidders and Section – VI – List of Requirements, the comparison of the responsive tenders shall be carried out on Delivery Duty Paid (DDP) consignee site basis.

34.2 The quoted turnkey price (if applicable) and CMC prices (if asked) will also be added for comparison/ranking purpose for evaluation. The Net Present value (NPV) of the Comprehensive Annual Maintenance charges (CMC) quoted for every year after warranty period shall be added to the bid price for evaluation and will be calculated after discounting the quoted price by a discounting factor of 10% per annum.

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

35.1 Further to GIT Clause 34 above, the Tender Inviting Authority's evaluation of a tender will include and take into account the following:

i) In the case of goods manufactured in India or goods of foreign origin already located in India, sales tax & other similar taxes and excise duty & other similar duties, Service Tax, Works Contract Tax etc which will be contractually payable (to the bidder), on the goods if a contract is awarded on the bidder; and

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

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

36. Bidder's capability to perform the contract

36.1 The Tender Inviting Authority, through the above process of tender scrutiny and tender evaluation will determine to its satisfaction whether the bidder, whose tender has been determined as the lowest evaluated responsive tender, is eligible, qualified and capable in all respects to perform the contract satisfactorily. If, a Bidder is responsive for more than one schedule, then, such determination will be made cumulative.

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

37. Contacting the Tender Inviting Authority

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

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

G. AWARD OF CONTRACT

38. Tender Inviting Authority's Right to accept any tender and to reject any or all tenders

38.1 The Tender Inviting Authority 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 bidder or bidders.

39. Award Criteria

39.1 Subject to GIT clause 38 above, the contract will be awarded to the lowest evaluated responsive bidder decided by the Tender Inviting Authority in terms of GIT Clause 36. The contract shall be valid for one year from the date of signing of agreement unless otherwise extended by TIA. The contract could be extended for a maximum period of another 3 months on the same terms and conditions and on the same rates.

40. Variation of Quantities at the Time of Award

40.1 Quantities mentioned in the schedule (s) in the "List of Requirements" in the bid documents, are to be procured by the Purchaser/Ordering Authority defined at GIT Clause 1.2. In unforeseen/exceptional circumstances, order quantities may increase or decrease and decision in this regard by TIA shall be final and binding to the bidder. The Tender Inviting Authority or other Ordering Authorities can place more orders during currency of contract (which is one year from the date of signing of agreement) and the supplier has to supply the material at the same rates and conditions of the contract during the contract period. Beyond receipt & supply of 125% (of the quantity as mentioned in schedule of requirements) quantity of goods, the contract shall be over irrespective of completion of one year and no more orders can be placed to the supplier by Ordering Authorities.

41. Intimation Letter to successful bidder / Notification of Award

- 41.1 Before expiry of the tender validity period, the Tender Inviting Authority will notify the successful bidder(s) in writing, only by registered / speed post or by e-order (to be confirmed by registered / speed post) that its tender for goods & services, which have been selected by the Tender Inviting Authority, 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 bidder must furnish to the Tender Inviting Authority the required performance security within 21 days along with the contract agreement from the date of dispatch of this notification, failing which the EMD will be forfeited and the award will be cancelled. Relevant details about the performance security have been provided under GCC Clause 5 under Section IV.
- 41.2 The Notification of Award shall constitute the conclusion of the Contract.
- 41.3 The rates quoted and accepted will be binding on the bidder for full contract period of one year from the date of signing of agreement and any increase in price will not be entertained till the completion of this contract period. However, contract can be extended by another 3 months, before the expiry of annual rate contract, with the same terms and conditions of the rate contract. Accordingly this clause will be applicable for all orders placed during the contract period.
- 41.4 All supply orders shall be placed by the Ordering Authority (ies). All terms and conditions of supply order (s) shall be governed by the conditions of this tender document. Relevant details about the performance security have been provided under GCC Clause 5 under Section IV.

42. Issue of Contract

- 42.1 Promptly after notification of award, the Tender Inviting Authority will mail the contract form (as per Section XV) duly completed and signed, in duplicate, to the successful bidder by registered / speed post.
- 42.2 Within twenty one days from the date of the Notification of Award (at GIT Clause 41 above) , the successful bidder shall return the original copy of the contract, duly signed and dated, to the Tender Inviting Authority by registered / speed post.

43. Non-receipt of Performance Security and Contract by the Tender Inviting Authority/Ordering Authority

- 43.1 Failure of the successful bidder in providing performance security and / or returning contract copy duly signed in terms of GIT clauses 41 and 42 above shall make the bidder liable for forfeiture of its EMD and, also, for further actions by the Tender Inviting Authority against it as per the GCC Clause 24.

44. Return of E M D

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

45. Publication of Tender Result

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

46. Corrupt or Fraudulent Practices

- 46.1 It is required by all concerned namely the Consignee/Bidders/Suppliers etc to observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Tender Inviting Authority: -
- (a) defines, for the purposes of this provision, the terms set forth below as follows:
- (i) "corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution; and
- (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Tender Inviting Authority, and includes collusive practice among Bidders (prior to or after Tender submission) designed to

- establish Tender prices at artificial non-competitive levels and to deprive the Tender Inviting Authority of the benefits of free and open competition;
- (iii) “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party [“parties” refers to participants in the procurement process (including public officials) attempting to establish bid prices at artificial, non competitive level].
 - (iv) “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party (a “party” refers to a participant in the procurement process or contract execution).
- (b) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent or collusive practices in competing for the contract in question;
 - (c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract by the Tender Inviting Authority if it at any time determines that the firm/ company has engaged in corrupt or fraudulent or collusive practices in competing for, or in executing the contract.

SECTION - III
SPECIAL INSTRUCTIONS TO BIDDERS
(SIT)

Sl. No.	GIT Clause No.	Topic	SIT Provision
A	1 to 7	Preamble	No Change
B	8 to 10	TE documents	No Change
C	11 to 21	Preparation of Tenders	No Change
D	22 to 24	Submission of Tenders	No Change
E	25	Tender Opening	No Change
F	26 to 37	Scrutiny and Evaluation of Tenders	No Change
G	38 to 45	Award of Contract	No Change

SECTION-III
SPECIAL INSTRUCTIONS TO BIDDERS
(SIT)

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

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

A Preamble

No Change

B Tender Documents

No Change

C Preparation of Tenders

No Change

D Submission of Tenders

No Change

E Tender Opening

No Change

F Scrutiny and Evaluation of Tenders

No Change

G Award of Contract

No Change

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

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SECTION-IV

GENERAL CONDITIONS OF CONTRACT (GCC)

1. Application

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

2. Use of contract documents and information

- 2.1 The supplier shall not, without the Tender Inviting Authority'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 Tender Inviting Authority in connection therewith, to any person other than the person(s) employed by the supplier in the performance of the contract emanating from this Tender 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 Tender Inviting Authority'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 Tender Inviting Authority and, if advised by the Tender Inviting Authority, all copies of all such documents shall be returned to the Tender Inviting Authority on completion of the supplier's performance and obligations under this contract.

3. Intellectual Property Rights

- 3.1 The supplier shall, at all times, indemnify and keep indemnified the Tender Inviting Authority, free of cost, against all claims which may arise in respect of goods & services to be provided by the supplier under the contract for infringement of any intellectual property rights or any other right protected by patent, registration of designs or trademarks. In the event of any such claim in respect of alleged breach of patent, registered designs, trademarks etc. being made against the Tender Inviting Authority, the Tender Inviting Authority 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 Tender Inviting Authority.

4. Country of Origin

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

5. Performance Security

- 5.1 Within twenty one (21) days from date of the issue of intimation letter/ notification of award by the Tender Inviting Authority/Ordering Authority, the supplier, shall furnish performance security to the Tender Inviting Authority for an amount equal to ten percent (10%) of the contract value, valid up forty-five (45) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations.

- 5.2 The Performance security shall be denominated in Indian Rupees and shall be in the form of Bank Guarantee issued by a Scheduled bank in India or abroad, in the prescribed form as provided in section XIV of this document in favour of the Purchaser/Consignee. The validity of the Bank Guarantee will be for a period up to sixty (60) days beyond Warranty Period.
- 5.3 In the event of any failure /default of the supplier with or without any quantifiable loss to the government including furnishing of Bank Guarantee for CMC security as per Proforma in Section XIV, the amount of the performance security is liable to be forfeited. The Purchaser/Consignee may do the needful to cover any failure/default of the supplier with or without any quantifiable loss to the Government.
- 5.4 In the event of any amendment issued to the contract, the supplier shall, within fifteen (15) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended.
- 5.5 The purchaser/consignee may enter into AMC/CMC as per the 'Contract Form – B' in Section XV with Purchaser/respective consignees, 3 (three) months prior to the completion of Warranty Period. The CMC may commence from the date of expiry of the Warranty Period.
- 5.6 Subject to GCC sub – clause 5.2 above, the Purchaser / Consignee will release the Performance Security without any interest to the supplier on completion of the supplier's all contractual obligations including the warranty obligations. If Purchaser / Consignee doesn't enter into AMC/CMC with the supplier in spite of repeated reminders by the supplier, Tender Inviting Authority is bound to release the Performance Security within six months after its due date of release.

6. Technical Specifications and Standards

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

7. Packing and Marking

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

Unless otherwise mentioned in the Technical Specification and Quality Control Requirements under Sections VII and VIII and in SCC under Section V, the supplier shall make separate packages for each ordering authority/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 including relevant code numbers of the accessories
- d. Country of origin of goods
- e. Ordering Authority/consignee's name and full address including contact numbers and

f. Supplier's name and address including contact numbers

8. Inspection, Testing and Quality Control

- 8.1 Before despatch of the ordered goods, supplier, at its own cost, has to carry out pre-despatch inspection of the ordered goods either by empanelled inspection agency (ies) of CE/US FDA 21 CFR compliance certifying body (ies) through ASTM standards. Before submitting the product for inspection through empanelled agency(ies), the manufacturer must provide test certificate detailing in house tests carried out and the product's compliance. The test certificate must include performance parameters of all sub-systems and components.
- 8.2 The Tender Inviting Authority (TIA) and/or its nominated representative(s) may, without any extra cost to the Tender Inviting Authority, inspect and/or test the ordered goods, its manufacturing line and the related services to confirm their conformity to the contract specifications and other quality control details incorporated in the contract. The TIA shall inform the supplier in advance, in writing, the TIA'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 Tender Inviting Authority and/or its nominated representative(s).
- 8.3 The Technical Specification and Quality Control Requirements incorporated in the contract shall specify what inspections and tests are to be carried out and, also, where and how they are to be conducted. If such inspections and tests are conducted in the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance, including access to relevant drawings, design details and production data, shall be furnished by the supplier to the Tender Inviting/ Ordering Authority's inspector at no charge to the Tender Inviting Authority/ Ordering Authority.
- 8.4 Tender Inviting Authority or Ordering Authority or their representative shall also 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 at the site of final destination (at consignee's premises).
- 8.5 If during such inspections and tests the contracted goods fail to conform to the required specifications and standards, the Tender Inviting/Ordering Authority'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 Tender Inviting/Ordering Authority and resubmit the same to the Tender Inviting/Ordering Authority's inspector for conducting the inspections and tests again.
- 8.6 In case the contract/supply order stipulates pre-despatch inspection of the ordered goods at supplier's premises by Tender Inviting Authority, the supplier shall put up the goods for such inspection to the Tender Invitee's inspector well ahead of the contractual delivery period, so that the Tender Inviting Authority's inspector is able to complete the inspection within the contractual delivery period.
- 8.7 If the supplier tenders the goods to the Tender Invitee's inspector for inspection at the last moment without providing reasonable time to the inspector for completing the inspection within the contractual delivery period, the inspector may carry out the inspection and complete the formality beyond the contractual delivery period at the risk and expense of the supplier. The fact that the goods have been inspected after the contractual delivery period will not have the effect of keeping the contract alive and this will be without any prejudice to the legal rights and remedies available to the Tender Inviting Authority under the terms & conditions of the contract.
- 8.8 The Tender Inviting Authority'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 Tender Inviting/Ordering Authority's inspector during pre-despatch inspection mentioned above.
- 8.9 Goods accepted by the Tender Inviting Authority/Ordering Authority and/or its inspector at initial inspection and in final inspection in terms of the contract shall in no way dilute Tender Inviting

Authority'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.

9. Terms of Delivery

9.1 Goods shall be delivered by the supplier in accordance with the terms of delivery specified in the contract.

10. Transportation of Goods

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

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

10.2 Instructions for transportation of goods offered from abroad:

Not applicable

11. Insurance:

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

- i) in case of supply of domestic goods including goods already imported in India, on Consignee site basis, the supplier shall be responsible till the entire stores contracted for arrival in good condition at destination. The transit risk in this respect shall be covered by the Supplier by getting the stores duly insured an amount equal to 110% of the value of the goods from warehouse to warehouse (consignee site) on all risk basis. The insurance cover shall be obtained by the Supplier and should be valid till 3 months after the receipt of goods by the Consignee.
- ii) in case of supply of imported goods on CIP named port of destination basis, the additional insurance (local transportation and storage) would be borne by the supplier from the port of entry to the consignee site for a period including 3 months beyond date of delivery for an amount equal to 110% of the overall expenditure to be incurred by the purchaser from warehouse to warehouse (consignee site) on all risk basis.
- iii) If the equipment is not commissioned and handed over to the consignee within 3 months, the insurance will be got 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 actual will be reimbursed.

12. Consumables & Spare parts

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

- a) All equipment as specified in the List of Requirement should be able to operate with standard quality consumables available in open market. The bidder shall specify it in its bid and shall provide standard specifications in sufficient details of all consumables required to operate the equipment to enable the purchaser to try for these consumables in the open market. It is the purchaser's prerogative to purchase standard quality consumables/spare parts from any source available in the market and this act shall not relieve the supplier from any contractual obligation including warranty & AMC/CMC obligations.

- b) The spare parts as selected by the Tender Inviting Authority/Ordering Authority 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
- c) In case the production of the spare parts is discontinued the supplier shall give:
 - i) Sufficient advance notice to the Tender Inviting Authority/Ordering Authority before such discontinuation to provide adequate time to the Tender Inviting/Ordering Authority to purchase the required spare parts etc., and
 - ii) Immediately following such discontinuation, providing the Tender Inviting Authority/Ordering Authority, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the Tender Inviting Authority/Ordering Authority.

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 Tender Inviting Authority/Ordering Authority promptly on receipt of order from the Tender Inviting Authority/Ordering Authority.

13. Incidental services

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

- a. Inform pre-requisite for installation & commissioning such as civil/electrical/miscellaneous requirement well in advance to the ordering authority.
- b. Installation & commissioning, Supervision and Demonstration of the goods
- c. Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
- d. Providing Standard Operating Procedure detailing operational guidelines, limitations, precautions, routine maintenance and Do's & Don'ts.
- e. The supplier shall help in preparing a log-book.
- f. Training of Consignee's Doctors, Staff, operators etc. for operating and maintaining the goods
- g. Supplying required number of operation & maintenance manual for the goods

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

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

Unless otherwise specified in the SCC, the usual documents involved and the same 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 Tender Inviting Authority, Ordering Authority/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) keeping in view that the notification should reach the concerned authority not on a closed day/public holiday:

- (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 XVI 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 Inspection agency;
- (v) Certificate of origin;
- (vi) Insurance Certificate as per GCC Clause 11.
- (vii) Manufacturers/Supplier's warranty certificate & In-house inspection certificate.

B) For goods imported from abroad:

Not applicable

15. Warranty and CMC

- 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 Tender Inviting Authority 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 Tender Inviting Authority'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 The **warranty** shall remain valid for three years (36 months) from the date of installation & commissioning followed by CMC for a period of 3 (Three) Years for all the equipment after the goods or any portion thereof as the case may be, have been delivered to the final destination and installed and commissioned at the final destination and accepted by the Tender Inviting Authority/Ordering Authority in terms of the contract, unless specified otherwise in the SCC.
- a. No conditional warranty like mishandling, manufacturing defects etc. will be acceptable.
 - b. Warranty as well as Comprehensive Maintenance contract will be inclusive of all accessories and Turnkey work
 - c. Replacement and repair will be under taken for the defective goods.
 - d. Proper marking has to be made for all spares for identification like printing of installation and repair dates.
- 15.3 In case of any claim arising out of this warranty, the Tender Inviting Authority/Ordering Authority/Consignee shall promptly notify the same in writing to the supplier. The period of the warranty will be as per G.C.C clause number 15.2 above irrespective of any other period mentioned elsewhere in the bidding documents.
- 15.4 Upon receipt of such notice, the supplier shall, within 24 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. If any part is required to be replaced, the defective equipment should be made functional within 72 hours from the time of breakdown call to the supplier. The supplier shall take over the replaced parts/goods after providing their replacements and no claim, whatsoever shall lie on the Tender Inviting Authority/Ordering Authority for such replaced parts/goods thereafter. The penalty clause for non- rectification will be applicable as per tender conditions.
- 15.5 In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the warranty for the rectified/replaced goods shall be extended to a further period of twenty four (24) months from the date such rectified / replaced goods starts functioning to the satisfaction of the Tender Inviting Authority.
- 15.6 If the supplier, having been notified, fails to respond to take action to repair or replace the defect(s) within 72 hours on a 24(hrs) X 7 (days) X 365 (days) basis, the Tender Inviting Authority may proceed to take such remedial action(s) as deemed fit by the Tender Inviting Authority/Ordering

Authority , at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the Tender Inviting Authority may have against the supplier.

- 15.7 During Warranty period, the supplier is required to visit at each consignee's site at least once in 4 months commencing from the date of the installation/commissioning for preventive maintenance of the goods and any no. of breakdown calls. The supplier shall also carry out calibration of equipment during warranty period as per manufacturer's guidelines.
- 15.8 The Tender Inviting Authority may enter into Annual Comprehensive Maintenance Contract (CMC) or AMC with the Supplier for the next three **years** after completion of warranty period. CMC is an extension of warranty period. All conditions w.r.t. replacement of parts and accessories shall also be applicable during CMC period. Respective Ordering Authorities shall pay CMC charges at the accepted rates.
- 15.9 The supplier and the CMC provider shall ensure continued supply of the spare parts for the machines and equipment supplied by them to the Tender Inviting Authority for 10 years from the date of installation and handing over.
- 15.10 The Supplier and the CMC Provider shall always accord most favoured client status to the Tender Inviting Authority vis-à-vis its other Clients/Tender Inviting Authority of its equipment/machines/goods etc. and shall always give the most competitive price for its machines/equipment supplied to the Tender Inviting Authority/Ordering Authority/Consignee.
- 15.12 During CMC period, the supplier is required to visit at each consignee's site at least once in 4 months commencing from the date of entering into CMC contract for preventive maintenance of the goods and any no. of breakdown calls. During CMC too, CMC provider shall calibrate the equipment as per manufacturer's guidelines.
- 15.11 If the supplier, having been notified during CMC period, fails to respond to take action to repair or replace the defect(s) within 72 hours on a 24(hrs) X 7 (days) X 365 (days) basis, the Tender Inviting Authority shall, without prejudice to other rights and remedies available to the Tender Inviting Authority under the contract, impose liquidated damages, a sum equivalent to 0.1% per day of delay up to 7 days, 0.2% per day of delay up to 14 days and 0.25% per day of delay beyond 14 days of equipment purchase cost.

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 Tender Inviting Authority's prior written permission.

17. Sub Contracts

- 17.1 The Supplier shall notify the Tender Inviting Authority 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. Sub contracts shall not be inconsistent with the terms of the tender/contract agreement.
- 17.2 Sub contracts shall also comply with the provisions of GCC Clause 4 ("Country of Origin").

18. Modification of contract

- 18.1 If necessary, the Tender Inviting Authority 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 Tender Inviting Authority,
- 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 Tender Inviting Authority depending on the merits of the case.

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

19. Prices

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

20. Taxes and Duties

20.1 Supplier shall be entirely responsible for all taxes, duties, fees, levies etc. incurred until delivery of the contracted goods to the Tender Inviting Authority. However, wherever Sales Tax is applicable, the same shall be paid as per governing rules of Government of Madhya Pradesh.

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

21. Terms and Mode of Payment

21.1 Payment Terms

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

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

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

a) On delivery and satisfactory installation:

100% payment of the contract price shall be paid on receipt of goods in good condition & satisfactory installation 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) Test certificate issued by In-house Quality control department;
- (iii) Consignee Receipt Certificate as per Section XVI in original issued by the authorized representative of the consignee;
- (iv) Two copies of packing list identifying contents of each package;
- (v) Inspection certificate issued by the Inspection agency as per clause GCC 8;
- (vi) Insurance Certificate as per GCC Clause 11;
- (vii) Certificate of origin.
- (viii) 'Final Acceptance Certificate' issued by consignee subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise.

B) Payment of Imported Goods:

Not applicable.

C) Payment of Turnkey, if any:

Turnkey payment will be made to the manufacturer's agent in Indian rupees indicated in the relevant Price Schedule or by Tender Inviting Authority and shall not be subject to further escalation / exchange variation. Payment shall be made in Indian Rupees to the supplier.

C) Payment for Annual Comprehensive Maintenance Contract Charges: The Ordering Authorities may enter into AMC/CMC with the supplier after expiry of warranty period.. The payment of AMC/CMC will be made on six monthly basis after satisfactory completion of maintenance services during said period, duly certified by the consignee.

- 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 currency only.
- 21.5 The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to the Tender Inviting/ respective consignees (as the case may be).
- 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 While claiming reimbursement of duties, taxes etc. (like sales tax, excise duty, custom duty) from the Tender Inviting Authority/Ordering Authority/Consignee, as and if permitted under the contract, the supplier shall also certify that, in case it gets any refund out of such taxes and duties from the concerned authorities at a later date, it (the supplier) shall refund to the Tender Inviting Authority/Ordering Authority forthwith.
- 21.8 In case where the supplier is not in a position to submit its bill for the balance payment for want of receipted copies of Inspection Note from the consignee and the consignee has not complained about the non-receipt, shortage, or defects in the supplies made, balance amount will be paid by the paying authority without consignee's receipt certificate after three months from the date of the preceding part payment for the goods in question, subject to the following conditions:
- (a) The supplier will make good any defect or deficiency that the consignee (s) may report any time subsequently from the date of despatch of goods.
 - (b) Delay in supplies, if any, has been regularized.
 - (c) The contract price where it is subject to variation has been finalized.
 - (d) The supplier furnishes the following undertakings:

"I/We, _____ certify that I/We have not received back the Inspection Note duly receipted by the consignee or any communication from the Tender Inviting Authority or the consignee about non-receipt, shortage or defects in the goods supplied. I/We _____ agree to make good any defect or deficiency that the consignee may report any time subsequently till the expiry of warranty/CMC period (as the case may be) from the date of receipt of this balance payment.

22. Delay in the supplier's performance

- 22.1 The supplier shall deliver the goods and perform the services under the contract within the time schedule specified by the Tender Inviting Authority/Ordering Authority 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,
 - (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 Tender Inviting Authority/Ordering Authority in writing about the same and its likely duration and make a request to the Tender Inviting Authority/Ordering Authority for extension of the delivery schedule accordingly. On receiving the supplier's communication, the Tender Inviting Authority/Ordering Authority 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 Tender Inviting Authority/Ordering Authority shall recover from the supplier, under the provisions of the clause 23 of the General Conditions of Contract, liquidated damages on the goods and services, which the Supplier has failed to deliver within the delivery period stipulated in the contract.
 - (b) That no increase in price on account of any ground, whatsoever, including any stipulation in the contract for increase in price on any other ground and, also including statutory increase in or fresh imposition of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or on account of any other tax or duty which may be levied in respect of the goods and services specified in the contract, which takes place after the date of delivery stipulated in the contract shall be admissible on such of the said goods and services as are delivered and performed after the date of the delivery stipulated in the contract.
 - (c) But nevertheless, the Tender Inviting Authority/Ordering Authority shall be entitled to the benefit of any decrease in price on account of reduction in or remission of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or any other duty or tax or levy or on account of any other grounds, which takes place after the expiry of the date of delivery stipulated in the contract.
- 22.5 The supplier shall not dispatch the goods after expiry of the delivery period. The supplier is required to apply to the Tender Inviting Authority/Ordering Authority/Consignee for extension of delivery period and obtain the same before despatch. In case the supplier dispatches the goods without obtaining an extension, it would be doing so at its own risk and no claim for payment for such supply and / or any other expense related to such supply shall lie against the Tender Inviting Authority.

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 Tender Inviting Authority/Ordering Authority/Consignee shall, without prejudice to other rights and remedies available to the Tender Inviting Authority/Ordering Authority/Consignee under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached, the order stands cancelled and LD shall be imposed on the value of the unexecuted order. Security Deposit of such suppliers can also be forfeited besides

taking other penal action like debarment from participating in present and future tenders of the tender inviting authority etc.

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 Tender Inviting Authority/Ordering Authority , without prejudice to any other contractual rights and remedies available to it (the Tender Inviting Authority/Ordering Authority), 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 Tender Inviting Authority/Ordering Authority pursuant to GCC sub-clauses 22.3 and 22.4.
- 24.2 In the event of the Tender Inviting Authority/Ordering Authority terminates the contract in whole or in part, pursuant to GCC sub-clause 24.1 above, the Tender Inviting Authority/Ordering Authority may carry out risk purchase 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 Tender Inviting Authority/Ordering Authority for the extra expenditure, if any, incurred by the Tender Inviting Authority/Ordering Authority for arranging such procurement.
- 24.3 Unless otherwise instructed by the Tender Inviting Authority/Ordering Authority, 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 Tender Inviting Authority 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 Tender Inviting Authority/Ordering Authority.

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 Tender Inviting Authority/Ordering Authority 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 Tender Inviting Authority/Ordering Authority in writing of such conditions and the cause thereof within twenty one days of occurrence of such event. Unless otherwise directed by the Tender Inviting Authority/Ordering Authority in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

- 26.4 If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.
- 26.5 In case due to a Force Majeure event the Tender Inviting Authority/Ordering Authority is unable to fulfil its contractual commitment and responsibility, the Tender Inviting Authority/Ordering Authority will notify the supplier accordingly and subsequent actions taken on similar lines described in above sub-paragraphs.

27. Termination for convenience

- 27.1 The Tender Inviting Authority/Ordering Authority reserves the right to terminate the contract, in whole or in part for its (Tender Inviting Authority's/Ordering Authority's) convenience, by serving written notice on the supplier at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of the Tender Inviting Authority/Ordering Authority. 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 Tender Inviting Authority/Ordering Authority following the contract terms, conditions and prices. For the remaining goods and services, the Tender Inviting Authority/Ordering Authority may decide:
- a) To get any portion of the balance completed and delivered at the contract terms, conditions and prices; and / or
 - b) To cancel the remaining portion of the goods and services and compensate the supplier by paying an agreed amount for the cost incurred by the supplier towards the remaining portion of the goods and services.

28. Governing language

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

29. Notices

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

30. Resolution of disputes

- 30.1 If dispute or difference of any kind shall arise between the Tender Inviting Authority/Ordering Authority and the supplier in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.
- 30.2 If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then, unless otherwise provided in the SCC, either the Tender Inviting Authority/Ordering Authority or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided the applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India.

- 30.3 All disputes arising out of tendering process shall be within the jurisdiction of High Court of Madhya Pradesh, principal seat at Jabalpur, India.
- 30.4 Arbitration proceedings shall be convened by a panel of three arbitrators, one arbitrator each shall be nominated by both the parties and the third arbitrator shall be appointed with the mutual consultation and consent of both the arbitrators.
- 30.5 The award passed by the arbitrators shall be final and binding.
- 30.6 Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e., Bhopal, Madhya Pradesh, India.

31. Applicable Law

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

32. General/ Miscellaneous Clauses

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

SECTION – V

SPECIAL CONDITIONS OF CONTRACT (SCC)

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

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

None

Warranty & CMC (GCC Clause 15)

Warranty :- 3 year Warranty for all the equipments & Items

**AMC/CMC :-3 year CMC post 3 year Warranty for all the equipments & Items
(to decide on 3 years warranty/CMC)**

SECTION - VI
SCHEDULE OF REQUIREMENTS

Part I

Schedule No.	Description	Quantity (No.)
1	Anesthesia	33
2	Obstetrics & Gynecology	18
3	ENT	44
4	Physiotherapy	38
5	Casualty	03

Part II: Required Delivery Schedule:

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

- 30 days from date of order for Non-Imported (Indigenous) items –too less should be 60 days and 45 days for installation and commissioning as given below
- 120 days from date of order for Imported items (minimum 4 months suggested for delivery)

[Please indicate when the indented items are required to be delivered. In case it is not feasible to consider required delivery schedule, the Corporation may suitable modify in consultation with Indenting authority]

60 days from date of despatch of Notification of Award through Registered Post/ Speed Post/ e-order to delivery at consignee site. The date of delivery will be the date of delivery at consignee site (Bidders may quote earliest delivery period). Installation and commissioning shall be done within 45 days of receipt of goods at site or within 45 days of handing over the site for installation, whichever is later.

(b) For imported goods directly from Foreign:

Not applicable

Part III: Scope of Incidental Services:

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

Part IV:

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

Part V:

Comprehensive Maintenance Contract (CMC) as provided under GCC Clause 15.

Part VI:

Required Terms of Delivery and Destination.

a) For Indigenous goods or for imported goods:

At Consignee Site – Specified in the List of Requirements

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

b) For imported Goods directly from abroad: Not applicable

S. N.	Name of Consignee location(s)	Contact No. & E-mail ID
1	Dean Gandhi Medical College, Bhopal	(0755)-4050000 deangmc_bpl@yahoo.co.in
2	Dean Mahatma Gandhi Memorial Medical College, Indore	(0731)-2527383/2527679 mgmmcindoredean@gmail.com
3	Dean Gajra Raja Medical College, Gwalior.	(0751)-2403400 grmc1946@yahoo.co.in
4	Dean NSCB Medical College, Jabalpur.	(0761)-2370951 mcjbp@rediffmail.com
5	Dean S.S.Medical College, Rewa.	(07662)-241655 deanmcrewa@rediffmail.com
6	Dean Bundelkhand Medical College Sagar.	(07582)-236270 deansmc08@yahoo.co.in

[please mention and attach complete details of consignee, including its address, name of contact person, contact details]

Name(s) and contact details of nominated technical expert who may be contacted for any clarification regarding technical specifications

S. N.	Name	Designation	Mobile No. and E-mail ID Contact as given above
Department of Anesthesia			
1		Professor & Head Gandhi Medical College, Bhopal	
2		Professor & Head MGM Medical College, Indore	
3		Professor Gandhi Medical College, Bhopal	
Department of Obstetrics & Gynecology			
1		Professor & Head Gandhi Medical College, Bhopal	
2		Professor & Head MGM Medical College, Indore	
3		Professor Gandhi Medical College, Bhopal	
Department of ENT			
1		Professor & Head Gandhi Medical College, Bhopal	

2		Professor & Head MGM Medical College, Indore	
3		Professor Gandhi Medical College, Bhopal	
Department of Physiotherapy			
1		Vice Principle Physiotherapy MGM Medical College, Indore	
2		Associate Professor Physiotherapy MGM Medical College, Indore	
3		Associate Professor Physiotherapy MGM Medical College, Indore	
Casualty			
1		Casualty In charge, Gandhi Medical College, Bhopal	
2		Casualty In charge, MGM Medical College, Indore	
3		Casualty In charge, GR Medical College, Gwalior	

[It is expected that the technical specifications provided are appropriately detailed, generic and has incorporated the quality requirements. While initiating procurement, the Corporation, may review suggest some changes in the technical specifications to make it generic, add value and ensure competitive bidding. The technical expert so nominated shall be requested to review and approve such changes. The nominated technical expert is required to attend pre-bid meeting (if held) and meeting of Technical / Tender evaluation committee]

Section – VII

Technical Specifications

Name & List of 136 Equipment required for Anaesthesia, Obstetrics & Gynaecology, ENT, Physiotherapy and Casualty Departments Approved by Technical Expert Committee of CPC formed by Govt. for Medical Colleges & Associated Hospitals Enclosed with the indent form.

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

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

Note 3: All equipment operations to be demonstrated (if asked for any item in writing in 10-15 days) through submission of a "Demo model" in packing as would be supplied (Marked with Address) and signs "NOT for Sale" Government of MP Supply" Gross and net weight and markings on packing before experts after Technical Bid Opening by technical expert from the Firm with all accessories and spares complying the specifications and demo piece of the Model has to be submitted . All safety certificates, European CE/USFDA or equivalent standards certification, test reports from Government Approved Laboratory, warrantee and clearances from FDA etc to be submitted. The complete set should be submitted having operational log, maintenance log, break-down log and re-qualification log. The CMC details done earlier should also be brought with user certificates where supplied earlier with complete address, name of person to be contacted with phone.

Schedule no	Name of Department	Estimated Number of Equipment (Under R/C)+/-20% variation
1	Anaesthesia -38 types of equipments	33
2	Obstetrics & Gynaecology-23 types of equipments	18
3	ENT-46 types of equipments	44
4	Physiotherapy-38 types of items	38
5	Casualty- 7 types of items	03

Contents

Schedule	Department-Medical College	Name of Equipment	Page No
1	Anaesthesia, Sr no		
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	2	Anaesthesia ventilator	46

	3	C-pap unit	47
	4	Bi-pap unit	48
	5	Fiber optic laryngoscope (adult)	48
	6	Na+ k+ analyzer	49
	7	Bispectral index monitor	49
	8	Desflurane vaporizer	50
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	13	Peripheral nerve stimulator	52
	14	Lma with video facility	52
	15	Resuscitation anne advanced skill trainer	52
	16	Reusable patient warming system	53
	17	Anaesthesia pendent in O.T.	53
	18	Ozone generator	54
	19	Medical mobile x-ray machine for icu	54
	20	Multi Channel Monitor with Central station (Set of 12 Monitors with 1 Central Station)	
		Suction Machine- under process of RC finalization hence deleted	
	21	Bedside monitor for ICU	
	22	Monitor for HDU	
	23	Infusion pump	
	24	Head end panel	
	25	Defibrillator	
		ICU beds- under process of RC finalization hence deleted	
	26	Over Bed table	
		ABG Machine-- under process of RC finalization hence deleted	
	27	Crash/Resucitation trolley	
		Pulse oxymeter- under process of RC finalization hence deleted	
		Hemo Dialysis Machine (HD Machines) - under RC hence deleted	
	28	CRRT	
	29	Portable Echo Cardiography Machine (ICU Dedicated Ultrasound and Echo Machine)	
	30	Bedside X-ray	

		31	E.T.O. Sterilizer	
			Ambu Mask- under RC hence deleted	
		32	Isoflurane vaporizer	
		33	Sevoflurane vaporizer	
			Non invasive ventilator- under RC hence deleted	
			Glucometer-under process of RC finalization hence deleted	
2	Obs& Gyn			
		1	Colposcope	55
			CTG Machine- under process of RC finalization hence deleted	55
		2	Operating Laparoscopy Set	56
		3	LCD screen (Monitor) with trolley	56
		4	Digital CO2 insufflator	56
		5	Laparoscopy Trolley and documentation system	56
		6	Hysteromat	57
		7	D & C Set –	57
			Electronic Weighing Machine - under process of RC finalization hence deleted	57
		8	Vaginal Hysterctomy Set	57
		9	Digital High Definition Video Recording System and documentation system	58
		10	Three Chip camera head & focusing coupler	58
			Suction Machine- under process of RC finalization hence deleted	58
			Microscope binocular- under RC hence deleted	58
		11	Shadow less mobile side lamp for O.T.	58
		12	Ultrasound with Doppler and in-built printing and recording system	58
		13	Spermfuge machine	59
			Caesarean set- under process of RC finalization hence deleted	59
		14	Delivery Set	60
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		16	LLETZ	62
		17	Obstetric labour table	62
		18	Vessel sealing & ultrasonic dissector system	62
3	ENT, Sr no			
		1	Endolaryngo-Stroboscope set	63
		2	Diode laser	63
		3	ENT treatment unit with patient chair and with work station	63

	4	Operating microscope with viewing tube & endo camera with monitor	64
	5	Operating microscope wall mounted for OPD with zoom,	64
	6	Headlight with internal fiber optic light cable fully adjustable	64
	7	Headlight with internal fiber optic light cable fully adjustable with camera	65
	8	Wireless endoscope	65
	9	Heavy duty shadow less operating light for ENT OT similar make major+minor(O.T)	65
	10	Otoscope pen torch	65
	11	Rigid Esophagoscopy set	65
	12	Bronchoscope set (pediatric & adult) complete set with all accessories including forceps	65
	13	Drill engine complete with micro foot control and connecting cord	66
	14	ENT heavy duty operation table	66
	15	Cautery bipolar electrosurgical STE standard and standard accessories	66
	16	Video laryngoscope with telescope	67
	17	Distending operating laryngoscope	67
	18	OAE screener	67
	19	BERA – audiometer	67
	20	Impedence audiometer or middle ear analyzer	68
	21	Micro laryngeal forceps	69
	22	Electric cautery with all accessories	69
	23	Micro ear surgery instruments :-	69
	24	CO2 laser system	70
	25	Bipolar RFA for ablation in ENT region with auto stop function.	70
	26	Electronystagmography (ENG) machine	71
	27	Cryotherapy unit	72
	28	Telescope handle	72
	29	Hartman’s nasal speculum	72
	30	Septum needle	72
	31	Cottles elevator	72
	32	Kuhn bolger frontal sinus curette (55° curved)	72
	33	Kuhn bolger frontal sinus curette (90° curved)	72
	34	Otologic Drill System	72
	35	Facial Nerve Monitor	72
	36	Cochlear Implant Kit	72
		C-Arm -under RC hence deleted	72
	37	Burrs	74

		Pure tone audiometry- under RC hence deleted	74
	38	ENT operating microscope for minor operation theatre	74
	39	Temporal bone lab microscope	74
	40	Drill Machine with mastoid set for temporal bone lab	75
	41	Flexible Laryngoscope	75
	42	Cryosurgery Unit	
	43	Micro Drill with hand piece with burrs of sizes	
	44	Accessories for nasal endoscopes (Instruments, endo camera & monitor for visualization)	75
4	Physiotherapy, Sr no		
	1	Pulsed Short wave Diathermy Unit	76
	2	Electrotherapy / Combination Therapy with Trolley & Vacuum	76
	3	HI-TRAC, Lumbar-Cervical UNIT (Computerized, with bed)	77
	4	Whirlpool Bath With Chair for Whirlpool Bath	77
	5	Scanning Laser with hand held probe	77
	6	Semi-recumbent cycle	77
	7	Upright bike	78
	8	Gait trainer	78
	9	Unweighing system	79
	10	Hand Evaluation Set	80
	11	Algometer	80
	12	Electro Goniometer	80
	13	Universal Inclinator	80
	14	Bubble inclinometer	80
	15	Pneumatic compression therapy system	80
	16	Synthetics Bones & Skeleton set	80
	17	Cryotherapy Unit	80
	18	Mannumed Special Traction Couch	80
	19	Mobile Stimulator with multiple currents	81
	20	Shortwave Diathermy Unit	81
	21	Ultrasonic Therapy Unit	81
	22	Diagnostic Muscle Stimulator	81
	23	Paraffin Wax bath Unit	81
	24	Multi Gym Exercise Apparatus	81
	25	Quadriceps Table	81
	26	Finger Gripping Exerciser	81

	27	Exercise Table/Therapy Couch	81
	28	Exercise Mats	81
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	31	Standing Frame	81
	32	Transfer Boards	81
	33	CP Chairs	81
	34	ADL Board (Functional)	81
	35	Peg boards and games	81
	36	Combination of Microwave Diathermy + Computerized Traction With Couch	81
	37	BALANCE System	82
	38	Continuous Passive Motion (CPM) Unit	82
5	Casualty, Sr no		
		Suction machine Electrically Operated – under process of RC finalization hence deleted	83
		Suction machine Foot Operated- under process of RC finalization hence deleted	83
	1	Shadow less Lights	83
	2	Defibrillator with monitor	84
		Boyles apparatus i) Circle absorber ii) Cylinders iii) Breathing systems iv) Bains circuit v) Vaporizer B.p. apparatus- Under RC hence deleted	
	3	Ecg machine	85
		ICU bed- under process of RC finalization hence deleted	85

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

Schedule-1:

Technical Specification for

**List & Detailed Technical Specification of Equipments
Required for Department of ANAESTHESIA**

SNo	Name of equipment	Specification
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SNo	Name of equipment	Specification
1	Advanced Anaesthesia Machine	<p>Anaesthesia apparatus with circle absorber and fluotec vaporizers (with provision for selecta tec back bar) :</p> <ul style="list-style-type: none"> -must have antistatic castor wheel. -should have provision for spare cylinder with bourdon pressure gauge. -must have color coded yoke &port. -must have pin index system. -must have touch coded valves. -must have link 25 mechanisms -must have pop of valve. -must have oxygen failure alarm. -must have vaporizer for halothane / ISO flurane / sevo flurane. -calibrated vaporizer. -agent specific vaporizer. -pressure compensated. -flow compensated. -must have provision for anaesthesia ventilator. -must have circle absorber. -must have antistatic corrugated tubing. -table top for arranging drugs and syringes. -should have provision for two inlets for two oxygen and two inlets for two nitrous oxide cylinders with pin index system. A type. -high pressure relief value in the back bar system. -diaphragm in the pressure regulator teflon or steel -breathing circuit with inflation pressure manometer. -5 metres of high pressure tubing colour coded for oxygen and nitrous oxide with schradder valve attachment and pin index at the machine end. -provision for two 60 psi. Oxygen source built in the machine. -the soda lime canister should be double chambered single piece with metal bar on the top with provision for apl valve. Gas inlet and outlet change over knob to isolate the canister. -table top for keeping the monitor and Anaesthesia ventilator. - should have a capacity of 1.5kg or more - should have visible inspiratory and expiratory valves. -should have adjustable pressure relief valve -should have single switch change over from spontaneous to bag ventilation. - should have local technical support, technical engineer for 24 hours. <ol style="list-style-type: none"> 1. Hypoxic guard should be available 2. Low flow < 1 lit combined gas.
2	Anaesthesia	Ventilator: should be capable of supporting paediatrics and adult

SNo	Name of equipment	Specification
	Ventilator	<p>patients with wide variety of clinical conditions.</p> <p>Frictionless piston design eliminates the need for a compressor or hospital wall air.</p> <p>Should provide assist/ control, simv and spontaneous modes of ventilation with two breath types of volume controlled ventilation and pressure support ventilation. Should provide. Pcv pressure control ventilation in aic or simv modes.</p> <p>Tidal volume can be set from 40ml to 2000ml</p> <p>Respiratory rate ranges from 3 to 70bpm</p> <p>Peak flow ranges from 3 to 150lpm for Assist/control and simv modes, upto 300lpm for spontaneous breaths.</p> <p>Pressure support ranges from 0 to 70cm h₂o.</p> <p>Provides flow trigger from 1lpm to 20lpm.</p> <p>Provides setting of inspiratory pressure, insp. Time, i.e, exhalation sensitivity and rise time factor.</p> <p>Provides apnea backup ventilation.</p> <p>Internal O₂ blending and fio₂ monitoring available.</p> <p>Front panel distinctively classified for settings, patient data and alarm status with dual bargraph (volume & pressure)</p> <p>Provides internal battery backup for minimum 2.5 hours at full charge.</p> <p>External battery option available for both.</p> <p>Elaborate menu option for viewing active and reset alarm, self test, users settings, oxygen menu for calibration, software revision operational hours etc.</p> <p>Service menu provides descriptive service error codes, complete self test enables the service engineers & bio-medical technician for easy trouble shooting in case of ventilator inoperative condition.</p> <p>Provides respiratory mechanics measurement of static and dynamic compliance & resistance, auto peep etc.,</p> <p>Provides descriptive patient data monitoring.</p> <p>Provides safety valve open option to enable patient to breathe through atmosphere air in case of ventilator inoperative condition as safety measure.</p> <p>Provided with heated exhalation system to avoid cross contamination.</p> <p>With communication port enabling the provision for nebulizers and other external devices viz central monitoring, wave form interface, remote alarm, etc.,</p> <p>Manual inspiration and 100% oxygen flush option available.</p> <p>Provides non-invasive ventilation due to fact that it has got wide leak compensation, rise time capability & exhalation sensitivity features.</p> <p>Pcv-simv provides two level of pressure breaths comparable to bilevel/ bipap ventilation.</p> <p>Accessories to be supplied alongwith</p>

SNo	Name of equipment	Specification
		The ventilator: Adult breathing circuit Paediatric breathing circuit Re-usable insp bacteria filter Re-usable exp bacteria filter Collector vial assembly Flex arm, test lung F & p mr 810 humidifier base F & p mr 370 humidifer chamber High pressure oxygen hose assembly Operator manual, power cord, Trolley, nebuliser
3	C-Pap Unit	<ul style="list-style-type: none"> • Mode of ventilation should be cpap with temperature controller • Digital display for pressure and time parameters • Adjustable pressure range upto 20 cm h₂o • Ramps time should be unlimited • Hour meter counter to record the operation time • Complete with pollen filters and carrying case • Power of 220v, 50hz • Any other added feature • With slip apnea detection alarm and with humidifier.
4	Bi-Pap Unit	<ul style="list-style-type: none"> • From a company of international or national repute • Automatic bipap unit for pre & post operative treatment to assist breathing mechanism & gas exchange for paediatric & adult patients and also sleep apnea. • Mode of ventilation will be bi-level ventilation. • Digital display for pressure and time parameters. • Adjustable pressure range upto 30 cm h₂o. • Pressure bar graph for patient breaths and pressure. • Display of patient parameters. • Alarms on adjustable values. • Backup battery for one hour • Temperature control ventilation system. • Complete with filters and carrying case. • Power of 220 v, 50 hz • With slip apnea detection alarm and with humidifier.
5	Fiber Optic Laryngoscope (Adult)	General specifications: Light weight Easy handling and processing Compact study and ergonomic design Remote switch on the scope Integrated with standard accessories for cleaning and maintenance Technical features of the scope 1

SNo	Name of equipment	Specification
		<p>High resolution ccd chip Field of view: 120-140 degrees front view Depth of view: 3-100 mm or better Outer diameter of the distal end: 3.4-3.9mm Outer diameter of insertion tube: 3.4-3.9mm Inner diameter: 1.2-2mm Upward angulations: 180 degrees Downward angulations: 130 degrees Working length: 60-65cm Total length: 80-90cm 2- field of view: 1200 Depth of field: 3-50mm Tip deflection up/down: 210/1300 Rigid distal diameter: 4.5-5.0 mm Diameter of working channel: 1.5-2.0 mm Insertion tube working length: 600 mm Total length: 860 mm Video system center /video processor with key board should be Independent /separate module from light source Pre-procedural patient data storage up to 40 patients Emergency back-up bulb facility in light source Image freezing capacity on the scope Voltage on pal-220-240v, 50-60 ac-suitable for indian conditions Video outputs: rgb, bnc, y/c Xenon light source Independent /separate module from video processor Light weight Xenon light source 150-300 Voltage specifications suitable to indian condition -220-240 volts ac 50-60 hz, 0.5amps. Forced air-cooling with emergency lamp (halogen) Lcd monitor: should be Color monitor Minimum 14inches size screen High resolution Rgb, y/c and bnc Light weight Accessories Leakage taster Cleaning brush for the channel, channel opening cleaning brush (2 nos. Each) Good quality trolley Computer with printer & software for storing /documentation biopsy forceps with window: 2no.s</p>

SNo	Name of equipment	Specification
		Cleaning brush (short):1 no. Cleaning brush (long):1 no. Suction cylinder cleaning brush: 1no. Rubber intel seal: 10no.s Suction channel cleaning cap: 1no. Bite block: 1no. Eto gas venting cap: 1no. Carrying case: 1no. Owner's manual: 1no. Key: 1no.
6	Na ⁺ k ⁺ Analyzer	From a company of international or national repute Electrolyte analyzer ise for na, k, ca, li. For whole blood, plasma, serum, urine. Sample volume: - blood / plasma / serum 35-200 micro litres (chemistry dependent) urine (diluted) 50-250 micro litres (chemistry dependent) low maintenance electrodes - sealed or membraning Digital display Stat mode of operation. Auto sampler. Self diagnostics program; system monitoring and maintenance modes storage qc data Integral printer Calibrators,controls,reagents,consumables for start-up Complete with electrodes. 220v, 50 hz.
7	Bispectral Index Monitor	Product description: bis monitoring system for display of processed data and real-time eeg waveforms Monitor weight: 3 lbs (1.5 kg) Monitor dimensions: 6.5 in high x 6 in wide x 5 in deep(16.5 cm x 15.2 cm x 12.7 cm) Display size: 3.6 in (9.1 cm) Digital output: usb ports a,b, rs232 serial port Power requirements: 100-240 vac, 50-60 hz, 0.7 ampere max Electrical safety: conforms to: ul 60601-1, iec 60601-2-26, Can/csa-c22.2 #601.1 Battery backup: 45 minutes or more at full operation Recharge time: 6 hours or less Alarms: auditory and visual, user-adjustable limits Bisx™ specifications Weight: 10 oz. (.284 kg) including integral cable Dimensions: 3.75 in wide x 2.5 in high (9.5 cm x 6.3) Cable length: 9 ft (2.7 m) integral bisx cable 4.5 ft (1.4 m) from bisx to sensor connector

SNo	Name of equipment	Specification
8	Desflurane Vaporizer	<p>Should be agent specific -calibration must be correct</p> <ul style="list-style-type: none"> -pressure compensated -temperature compensated -flow compensated -should have a local technical support - engineers for 24 hours backup <p>Scope of supply</p> <ol style="list-style-type: none"> 1. vaporiser (sevoflurane)- 1 no 2. Key filler - 1 no 3. Manual - 1 no
	Paediatric Resuscitation Dummy(CPR Mannequin)	Under process of RC finalization hence deleted.
9	Block Aid Monitor with Nerve Locator and Mapper	<p>From reputed international or national reputed co</p> <p>Battery operated portable</p> <p>For block aid monitor all types of modes of stimulation (single twitch, tof, dbs, tetany) etc with recommended frequency (1 to 100 hz) display of current output</p> <p>To 5 ma minimum for nerve location and higher for maper and surface electrodes</p> <p>Should deliver rectangular monophasic impulse of less than 0.2m secs</p> <p>audio & visual single display</p>
10	Transcutaneous Electrical Nerve Stimulator	<ol style="list-style-type: none"> 1. No. of outputs should be 4 (four) 2. No. of channels 4 (four) 3. Stimulation types tens & ems. 4. Output wave form symmetrical biphasic spare wave. 5. Tens made should be burst, conventional, modulation type. 6. Power should be operable with both battery and alk maliry current 7. Treatment time - 1 to 60 minutes 8. Output voltage 40 volts peak to peak on 500 ohms load. 9. Output current 80mamaximum 10. Display system LCD 11. Burst mode pulse width 50 μs to 250 μs in steps of 10 μsPulse rate i hz & 120hz in step of 1 hz upto 20 hzs and hz from 20 - 12hz 12. Modulation mode pulse width - 50 μs to 250 μs in steps of 10 μs. Pulse rate - same 13. Convectional : -- continuous output, Pulse width same as above Pulse rate .:- same 14. It should be US FDA approved & ISO certified.

SNo	Name of equipment	Specification
11	Neuromuscular Monitor	<ol style="list-style-type: none"> 1. Should be non invasive. 2. Should permit evaluation of state of relaxation. 3. Should be compact, light and simple. 4. Should have battery operated stimulator. 5. Should have mounting brackets for securing the device. 6. Should have modes of stimulation with single twitch, tetanus and train of four.
	Oxygen Concentrator with Double Outlet	Under process of RC hence deleted
12	Anaesthesia Workstation	<p>Should be suitable for adult pediatric and neonatal patients.</p> <p>Hypoxic guard-which ensures minimum 25% concentration of oxygen in o₂/n₂o/mixture. Oxygen & n₂o flow should automatically get adjusted independently.</p> <p>One switch operation, electromechanical on/off switch.</p> <p>Advanced breathing system.</p> <p>One step bag-vent switch.</p> <p>Minimal number of parts and tube connections to reduce the potential for leaks and misconnects.</p> <p>All materials in contact with exhaled patient gases should be fully autoclavable and latex-free.</p> <p>Standard dual o₂ and n₂o air flow tubes-real low flow delivery possible.</p> <p>Minimum o₂ flow of 50 ml.</p> <p>O₂ & n₂o pin indexed yoke air pin indexed.</p> <p>Airway pressure gauge near the flow meter.</p> <p>O₂ flush.</p> <p>To be supplied with autoclavable reusable silicon breathing circuit.</p> <p>Integrated advanced ventilator with side arm adjustable ventilator display.</p> <p>Ventilator should essentially have all electronic numerical adjustment with single digit step adjustment.</p> <p>Should have volume mode.</p> <p>Ventilator pneumatics should have peak gas flow 70l/min + fresh gas flow & flow range of 2 to 70l/min.</p> <p>Pressure bar-graph for visual reference on breath-to-breath basis.</p> <p>Electronic peep. (4-40 cm)</p> <p>Alarms in ventilator.</p> <p>50 to 1500 ml tv, ratio 4:1 to 1:4.</p> <p>Battery backup of 30 minutes typical & 90 minutes when fully charged.</p>

SNo	Name of equipment	Specification
		<p>Fresh gas flow compensation. Larger work surface. Compact reusable & autoclavable carbon dioxide absorbent canister. Two-vaporizer manifold with selectatec mounting. Isoflurane and sevoflurane. Safety flow off valve 30 k pa (4.5 psi)+ 10%. Emergency o2 flush 35-70 liter/min. Auxiliary o2 supply- minimum of two. Trolley made of stainless steel resistant to corrosions. Required pressure o2-60 psi, n2o-60 psi, air-60 psi. Automatic changeover from pipeline to cylinder supply.</p>
13	Peripheral Nerve Stimulator	<ol style="list-style-type: none"> 1. Display – digital clear display, large screen. 2. audio indicator with several for easy detection of intensity delivered via needle. 3. Screen should be like that reading can be done in poorly lit surrounding. 4. Dimensions should be min. <ul style="list-style-type: none"> Length > 200mm. Width 55 mm to 90 mm Height 25 mm to 40 mm 5. Pulse frequency 1- 2 -4 hz. 6. Pulse width 50-----300lis 7. Pulse ---0.02 m a increment up to 0.5 ma 8. Maximum intensity <ul style="list-style-type: none"> 50 μs 6 ma or 300 nc 150 μs 5 ma 700 nc 300 μs 4ma 1200 nc 9. Should be both batteries as well ac operated. 10. Iso/ce certified. 11. Low battery alarm or break in circuit alarm. 12. Should have different color of cable (positive & negative) to avoid connection error. 13. It should be f.d.a. approved & iso certified.
14	LMA with video facility	<ul style="list-style-type: none"> - Curved airway tube with integrated fiber optic technology having digital display with controls for focusing and image adjustment. - Battery life > 40 min. And should be rechargeable - Should be light weight (< 900gm) with wireless connection. - Magnetic latch connector for good connectivity with lma tube. - Endotracheal tube with atraumatic tip to enter the trachea through lma. - Uninterrupted image transmission of light source at distal with end with no obstruction to endotracheal tube.
15	Resuscitation Anne	<p>Torso including: S airway management head</p>

SNo	Name of equipment	Specification
	Advanced Skill Trainer	S iv arm - Foam legs lower body - Remote control including batteries - Remote control cable (for use when rf communication is not allowed) - Power cord for ac wall adapter - 1 bottle simulated blood - 1 can lubricant - Manual defibrillation plates (paddle adapters) - Hard case (120 liter) - Resusci anne eye set - Directions for use - Track suit including jacket and pants - Software cd and usb interface cable Accessories Resusci anne modular extrication limbs Resusci anne modular first aid / trauma limbs Bleeding control leg
16	Reusable Patient Warming System	<ul style="list-style-type: none"> • Constant, evenly distributed warming directed towards patient, without air circulation. • Flexible system suitable for all type of surgeries. • Maximum possible coverage of the patient. • Gently warming directed toward patient ,no upward radiation of heat • Precise & selectable temp. Control between patient and blanket (from 30deg to 42 deg c) • No threat of nosocomial infection. • Non latex, anti-bacterial coated, blood and fluid resistant, cover material. • Reusable, washable and replaceable covers. • Small and light weight, control unit, easily attachable to iv pole /side rail of ot table. • Available in pediatric and adult sizes.
17	Anaesthesia Pendant in O.T.	<ol style="list-style-type: none"> 1. Supports upto 160 kg 2. Integrated accessory rail 3. Electric brake handle 4. Adjustable equipment shelves 5. Equipment rails 6. Pneumatic brake indicator 7. Adjustable shelves 8. Self closing lockable drawer 9. Integrated equipment rails 10. Seamless injection control

SNo	Name of equipment	Specification
		11. Custom outlet placement 12. Centrally aligned shelves 13. Option of rotation facility 14. Patient life pendant option 15. Arms allow for positioning adjustment of pendant head with in 2 meter range 16. Provision for i/v attachment 17. Turning range of 330 18. Stable strong adjustable mounting plate design 19. Expansion side pods. 20. Easing in corporation of cable system. 21. No of outlets 6 [2 for oxygen, 2 for vaccume, 1 for nitrous oxide & 1 for air (4 bar)] 22. Range 2 meter
18	Ozone Generator	Size : 6 wide * 6 * 1 ½ inches Weight : less than 2 pounds silent, low cost operation no filters or plates to clean or replace minimal maintenance Vacuum or blow dust from fan vent as needed Ozone purity : 100% no nitrogen byproducts Lamp arc life : 20,000 hrs or more
19	Medical Mobile X-ray Machine for ICU	70-150 mA machine with multiple flexible arms for easy maneuverability. Combined X Ray generator. Single focus. Bridge rectification. Should have all advanced features required for use in ICU. Should be upgradable to a higher version. Remote control device (control range>5m)
20	Multi Channel Monitor with Central station (Set of 12 Monitors with 1 Central Station)	Standard specifications with ECG, 4 IBP, NIBP, SPO2, ETCO2, Temperature, Cardiac Output <ol style="list-style-type: none"> 1. Latest monitors having a flexible modular design with easy interchange, upgradeability, data storage, retrieval, display analysis and printing. The same system should address a broad range of patients, from neonates to adults. Direct access to Web-based applications, without requiring extra servers or licenses (such as Microsoft® clients, Citrix). Displays single point access to all patient vital signs data as well as current information from Web based, HL7 compliant - cath Lab, X-ray, DICOM, HIS and more should be standard supply 2. Should allow manually operated instant and automatic storage in case of arrhythmias/other events. 3. Clear large screen, (19" and above) medical grade color TFT display suitable for electronic data management and display of more waveforms and parameters. 4. Capability to have simultaneous display of ≥6 parameters (including 4 invasive pressures measurements, respiration,

SNo	Name of equipment	Specification
		<p>temperature, oxygen saturation monitoring capnography, cardiac output with minimum 20 channels to display the more waveforms.</p> <ol style="list-style-type: none"> 5. View and analyze data in graphical or numerical formats, real-time measurement and trended data for minimum 72 hours, and organize every onscreen element as desired. Standard alarms that can be present for multiple signs and configured in different ways for patient comfort. 6. Touch screen interface for quick access and configuration. Multiple preset menu and customizable menus. 7. Configurable arrhythmia analysis tool, ST-T monitoring capabilities/mapping facility and adjustable alarms. 8. Send print commands to the central station from each monitor in various formats. 9. Wireless monitoring of the patient i.e., patient should be able to move around freely and still monitoring ECG & oxygen saturation. 10. All medical telemetry has to be operated on latest recommended Medical grade transmission frequency. It should be possible to monitor the ECG (3/5/12L) and SpO2 from any remote location in or out of the hospital. Either from an individual monitor or through central station. Software/hardware needed for remote access has to be provided. 11. Each monitor to be provided with all standard modules and accessories. These are ECG (3/5/12L), Respiration, NIBP, 4 IBP, oxygen saturation, Dual temperature should be standard. One ETCO2 module between every two monitors and one CO with 4 IBP module between 4 monitors. Modular upgrade to EEG, PiCCO, BISx, NMT, Transcutaneous ETCO2, ETC. 12. Standard Scope of supply must include: <ul style="list-style-type: none"> ➤ ECG Cable – 1 no per monitor. ➤ SpO2 Masimo set finger sensor with extension cable – 1 no per monitor. ➤ Skin temperature Probe – 1 no per monitor. ➤ Rectal / Esophageal temperature probe – 1 no per monitor. ➤ NIBP Hose – 1 no per monitor. ➤ Adult & Paediatric Cuff – 1 each per monitor. ➤ IBP reusable cable for 4 IBP and 20 pcs disposable transducers per monitor. ➤ Instruction for Use - 1 no per monitor. ➤ Etco2 module - one ETCO2 module between every two monitors. one CO with 4IBP module between 4

SNo	Name of equipment	Specification
		<p>monitors.</p> <ul style="list-style-type: none"> ➤ Wall mounts - 1no per monitor. <p>13. Central station: 12 bed central station with 19" Dual display, TFT touchscreen and wireless keyboard mouse. Upgradeable to 32 monitors at additional cost and upgrades. Alarms should also be configurable from/at the central station. It should be possible to delete/change/stop an event recognition that is an artifact or erroneous/not needed. A high end black and white laser printer should be provided.</p> <p>14. Server should have state of the art processor with latest technology. Server specification should be as per equipment's software requirement.</p> <p>15. Scope of Supply with each central station: -</p> <ul style="list-style-type: none"> ➤ 12 bed with 2 hrs full disclosure. ➤ Dual 19" touchscreen. ➤ Wireless keyboard mouse. ➤ UPS with 15 min back up. ➤ Colour network printer. ➤ Networking cost, wired switch, rack for switch, etc. <p>16. All the patient monitors including parametrs and features should be US FDA approved.</p> <p>17. Interface with ICU ventilator of select device to see waveforms, digital values, loops and trends of ventilator on patient monitor.</p> <p>18. Web browsing facility to review each networked monitors & select ventilator data (waveforms, loops and digital values) through hospital LAN via office PC in Hospital LAN Network and/or through secured web login facility from remote location as standard.</p> <p>The equipments quoted should be of latest model. The supplier has to give an undertaking that no new model is being launched in the next 12 months. Meanwhile if a new model is launched due to any reason, whatsoever, the supplier will be bound to supply that new model without any extra cost.</p> <p>ADDITIONAL INFORMATION:-The bidder has to quote price for set of 12 monitors with 1 central station.</p>
	Suction machine	Under process of RC finalization hence deleted
21	Bedside Monitor for ICU	<p>Standard specifications with ECG, 4 IBP, NIBP, SPO2, ETCO2, Temperature, Cardiac Output</p> <ol style="list-style-type: none"> 1. Latest monitors having a flexible modular design with easy interchange, upgradeability, data storage, retrieval, display analysis and printing. The same system should address a broad range of patients, from neonates to adults. Direct access to Web-based applications, without requiring extra servers or

SNo	Name of equipment	Specification
		<p>licenses (such as Microsoft® clients, Citrix). Displays single point access to all patient vital signs data as well as current information from Web based, HL7 compliant - cath Lab, X-ray, DICOM, HIS and more should be standard supply</p> <ol style="list-style-type: none"> 2. Should allow manually operated instant and automatic storage in case of arrhythmias/other events. 3. Clear large screen, (19" and above) medical grade color TFT display suitable for electronic data management and display of more waveforms and parameters. 4. Capability to have simultaneous display of ≥ 6 parameters (including 4 invasive pressures measurements, respiration, temperature, oxygen saturation monitoring capnography, cardiac output with minimum 20 channels to display the more waveforms. 5. View and analyze data in graphical or numerical formats, real-time measurement and trended data for minimum 72 hours, and organize every onscreen element as desired. Standard alarms that can be present for multiple signs and configured in different ways for patient comfort. 6. Touch screen interface for quick access and configuration. Multiple preset menu and customizable menus. 7. Configurable arrhythmia analysis tool, ST-T monitoring capabilities/mapping facility and adjustable alarms. 8. Send print commands to the central station from each monitor in various formats. 9. Wireless monitoring of the patient i.e., patient should be able to move around freely and still monitoring ECG & oxygen saturation. 10. All medical telemetry has to be operated on latest recommended Medical grade transmission frequency. It should be possible to monitor the ECG (3/5/12L) and SpO2 from any remote location in or out of the hospital. Either from an individual monitor or through central station. Software/hardware needed for remote access has to be provided. 11. Each monitor to be provided with all standard modules and accessories. These are ECG (3/5/12L), Respiration, NIBP, 4 IBP, oxygen saturation, Dual temperature should be standard. One ETCO2 module between every two monitors and one CO with 4 IBP module between 4 monitors. Modular upgrade to EEG, PiCCO, BISx, NMT, Transcutaneous ETCO2, ETC. 12. Standard Scope of supply must include: <ul style="list-style-type: none"> ➤ ECG Cable – 1 no per monitor. ➤ SpO2 Masimo set finger sensor with extension cable – 1

SNo	Name of equipment	Specification
		<p>no per monitor.</p> <ul style="list-style-type: none"> ➤ Skin temperature Probe – 1 no per monitor. ➤ Rectal / Esophageal temperature probe – 1 no per monitor. ➤ NIBP Hose – 1 no per monitor. ➤ Adult & Paediatric Cuff – 1 each per monitor. ➤ IBP reusable cable for 4 IBP and 20 pcs disposable transducers per monitor. ➤ Instruction for Use - 1 no per monitor. ➤ Etco2 module - one ETCO2 module between every two monitors. one CO with 4IBP module between 4 monitors. ➤ Wall mounts - 1no per monitor. <p>13. All the patient monitors including parameters and features should be US FDA approved.</p> <p>The equipments quoted should be of latest model. The supplier has to give an undertaking that no new model is being launched in the next 12 months. Meanwhile if a new model is launched due to any reason, whatsoever, the supplier will be bound to supply that new model without any extra cost.</p> <p>ADDITIONAL FEATURES Network facility. Mains operated.</p>
22	Monitor for HDU	<p>Standard specifications with ECG, 4 IBP, NIBP, SPO2, ETCO2, Temperature, Cardiac Output</p> <ol style="list-style-type: none"> 1. Latest monitors having a flexible modular design with easy interchange, upgradeability, data storage, retrieval, display analysis and printing. The same system should address a broad range of patients, from neonates to adults. Direct access to Web-based applications, without requiring extra servers or licenses (such as Microsoft® clients, Citrix). Displays single point access to all patient vital signs data as well as current information from Web based, HL7 compliant - cath Lab, X-ray, DICOM, HIS and more should be standard supply 2. Should allow manually operated instant and automatic storage in case of arrhythmias/other events. 3. Clear large screen, (19" and above) medical grade color TFT display suitable for electronic data management and display of more waveforms and parameters. 4. Capability to have simultaneous display of ≥ 6 parameters (including 4 invasive pressures measurements, respiration, temperature, oxygen saturation monitoring capnography, cardiac output with minimum 20 channels to display the more waveforms.

SNo	Name of equipment	Specification
		<p>5. View and analyze data in graphical or numerical formats, real-time measurement and trended data for minimum 72 hours, and organize every onscreen element as desired. Standard alarms that can be present for multiple signs and configured in different ways for patient comfort.</p> <p>6. Touch screen interface for quick access and configuration. Multiple preset menu and customizable menus.</p> <p>7. Configurable arrhythmia analysis tool, ST-T monitoring capabilities/mapping facility and adjustable alarms.</p> <p>8. Send print commands to the central station from each monitor in various formats.</p> <p>9. Wireless monitoring of the patient i.e., patient should be able to move around freely and still monitoring ECG & oxygen saturation.</p> <p>10. All medical telemetry has to be operated on latest recommended Medical grade transmission frequency. It should be possible to monitor the ECG (3/5/12L) and SpO2 from any remote location in or out of the hospital. Either from an individual monitor or through central station. Software/hardware needed for remote access has to be provided.</p> <p>11. Each monitor to be provided with all standard modules and accessories. These are ECG (3/5/12L), Respiration, NIBP, 4 IBP, oxygen saturation, Dual temperature should be standard. One ETCO2 module between every two monitors and one CO with 4 IBP module between 4 monitors. Modular upgrade to EEG, PiCCO, BISx, NMT, Transcutaneous ETCO2, ETC.</p> <p>12. Standard Scope of supply must include:</p> <ul style="list-style-type: none"> ➤ ECG Cable – 1 no per monitor. ➤ SpO2 Masimo set finger sensor with extension cable – 1 no per monitor. ➤ Skin temperature Probe – 1 no per monitor. ➤ Rectal / Esophageal temperature probe – 1 no per monitor. ➤ NIBP Hose – 1 no per monitor. ➤ Adult & Paediatric Cuff – 1 each per monitor. ➤ IBP reusable cable for 4 IBP and 20 pcs disposable transducers per monitor. ➤ Instruction for Use - 1 no per monitor. ➤ EtcO2 module - one ETCO2 module between every two monitors. one CO with 4IBP module between 4 monitors. ➤ Wall mounts - 1no per monitor. <p>13. All the patient monitors including parametrs and features</p>

SNo	Name of equipment	Specification
		<p>should be US FDA approved.</p> <p>The equipments quoted should be of latest model. The supplier has to give an undertaking that no new model is being launched in the next 12 months. Meanwhile if a new model is launched due to any reason, whatsoever, the supplier will be bound to supply that new model without any extra cost.</p>
23	Infusion Pump	<p>Infusion Pump for fluid administration.</p> <p>Programmable, automatic control of infusion rate independent of venous or arterial pressure, solution container height, and solution viscosity.</p> <p>Automatic function to keep vein open rate of 0.1ml/hr</p> <p>Digital display to indicate flow rate and volume infused.</p> <p>Rate of infusion 0.1 -99 ml/hr in 1.0 ml/hr increments. : 1.0 -999 ml/hr in 1.0 ml/hr increment</p> <p>Accuracy : +/- 5%</p> <p>Universal /standard infusion set acceptance capability.</p> <p>Calibrate automatically with any type of infusion set.</p> <p>Visual and Audible alarms for empty Container, Occlusion, low battery, Air-in-line and internal malfunction.</p> <p>Power of AC 220V/50Hz with a battery backup of 2 hours operation.</p>
24	Head end Panel	<p>Head End Control unit is an intelligent, programmable control panel, which has a built in facility for fault diagnostics.</p> <p>The HECU controls, monitors and supervises the Long Line Protection System and provides the following facilities:</p> <ul style="list-style-type: none"> • Man Machine Interface via a 15 inch LCD Panel and 4 * 20 character LCD. • Up to 48 VDC line voltage for single supply use in long line applications, up to 6.5 km on single supply. • Short circuit proof line supply. With auto reset on short removal. • Communication with new type intelligent Pull key with auxiliary input, new dual input primary device. • System core running on Dual AVR Risk Processors. • History logging in excel Format to SD Type multimedia card with real time and date. • Pull - key beep if tripped facility (menu selectable). • Audio test of intelligent Pull key buzzers (To make sure buzzers are sounding) • Transmission of information to the CCR via Mod – Bus RTU RS 232 / 485. • Optional RTU to Ethernet Convertor • Optional Ethernet to fiber Convertor • Electrical fail safe to interlock to switch gear which overrides

SNo	Name of equipment	Specification
		<p>software.</p> <p>*This unit is a flameproof enclosure for use in hazardous areas. The fault diagnostic facility in the HECU allows Maintenance personal to locate the fault area quickly and efficiently, thus minimizing downtime of operating conveyors.</p>
25	Defibrillator	<ol style="list-style-type: none"> 1. The machine should have facility for ECG monitoring defibrillator, external pacing (transcutaneous) & recorder. 2. The Defibrillator should be Biphasic technology, having energy selection up to 200 joules. 3. It must be capable of monitoring ECG through ECG cables, Multi function electrodes and paddles. 4. The machine should be able to defibrillate Adult, pediatric patients. 5. The machine should have ECG waveform display on bright high resolution display. 6. The machines should be compact, portable with inbuilt rechargeable battery. The machine should not be more than 7 kgs with battery and paddles. 7. The machine should have in built recorder printing ECG trace & stored information. 8. The machine should have a facility to external non-invasive pacing with 40ms pulse width. 9. The machine should have user selectable alarm settings. 10. The machine should work on mains as well as on rechargeable battery. 11. The unit should be supplied with Adult and inbuilt pediatric external paddles. 12. The charging time should be less than 7 secs at maximum energy. 13. The defibrillator should have facility to measure following parameters. <ol style="list-style-type: none"> (a) SPO2 (b) ETCO2 (c) NIBP (d) 12 lead 14. The machine should be supplied with standard accessories. 15. In addition to standard accessories following items have to be supplied with unit <ol style="list-style-type: none"> (a) S.L.A. Battery - 1 nos (b) NIBP pediatric cuff with hose - 1 nos (c) Resuable airway adaptor to be used with ETCO2 mainstream sensor & cable - 1 nos (d) Multi function defibrillation & monitoring padz/ sheets 100 nos 16. The unit should be U.S FDA approved.

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		The equipments quoted should be of latest model. The supplier has to give an undertaking that no new model is being launched in the next 12 months. Meanwhile if a new model is launched due to any reason, whatsoever, the supplier will be bound to supply that new model without any extra cost.
	ICU BED	Under process of RC hence deleted
26	Over Bed Tables	Over Bed Tables move easily under any hospital bed or recliner. With an integrated rail on our tables, accessories can be transferred from the head wall to the table for patient use. Our Dual /Flip Top Tables were designed by clinicians to provide an ergonomically friendly table that reduces infection control issued by minimizing area in which dust and dirt can collect.
	ABG Machine (Blood Gas Analyzer)	Under process of RC hence deleted
27	Crash / Resuscitation trolley	<p>Dished stainless steel top. Approx 630 X 445 mm. 25mm dished.</p> <p>Lift up laminated work flap approx 300 X 450</p> <p>Three drawers 2 shallow and 1 deep.</p> <p>1 shallow drawer fitted with drawer Tidy Unit</p> <p>Lower cupboard with central locking /securing all drawers and cupboard.</p> <p>Operated by cupboard door and use of security seals.</p> <p>Double hook stainless steel I.V. Pole.</p> <p>Double push handle</p> <p>Low level plastic bumper bar</p> <p>Quality cushion castors (2 X braking)</p> <p>2 X stainless steel cylinder holders for D or E size cylinders.</p> <p>Cardiac board 600 X 400 X 55 mm with stainless steel housing brackets at rear of trolley.</p> <p>Universal rail system fitted to width of trolley.</p> <p>6" aneroid sphygmomanometer with adult Velcro cuff and rail clamp.</p> <p>Electronic timer and rail clamp</p> <p>Venture suction unit with O₂ outlet and 2.0 liter jar.</p> <p>Yankauer suction tube and connecting tubing.</p> <p>O₂ flow meter fitted to O₂ venturi outlet 0-15 lpm.</p> <p>Pin index regulator with outlet for connecting to remote venturi hose and O₂ outlet.</p> <p>Intubation set comprising:</p> <ul style="list-style-type: none"> - Macintosh laryngoscope with 4/5 blade set. - Magill introducing forceps - Adult resuscitator - Set disposable E.T. tubes (5) - Set Guedel airways (3)

SNo	Name of equipment	Specification
		<ul style="list-style-type: none"> - Pen torch - Artery forceps (2) - Dressing scissors (2) Set plastic tubes Examination light to rail clamp.
	Pulse Oxymeter	Under process of RC hence deleted
	Hemo Dialysis Machine (HD Machine)	Under RC hence deleted
28	CRRT Machine	<p>A. Features</p> <ol style="list-style-type: none"> 1. Treatment Mode <ol style="list-style-type: none"> a) SCUP(Slow Continuous Ultrafiltration) b) CVVH(Continuous Veno-Venous Hemofiltration) c) CWHD(Continuous Veno-Venous Hemodialysis) d) CVVHDF(Continuous Veno-Venous Hemodiafiltration) e) HP(Hemoperfusion) 2. Pump for Treatment <ol style="list-style-type: none"> a) Blood Pump b) Dialysate Pump c) Substitute Pump d) Filtrate Pump 3. Safety <ol style="list-style-type: none"> a) Electric shock protection - Type CF or Type BF b) Battery backup 15min or Optional 4. Accuracy <ol style="list-style-type: none"> a) Precise & stable gravimetric system or gravimetric balancing system. 5. Flexibility <ol style="list-style-type: none"> a) Wide range of therapies b) Cassette system and filters 6. Easy Operation <ol style="list-style-type: none"> a) Color screen b) Guided operation and integrated HELP function 7. Optimally designed to carry out highly efficient therapies in the nephro-logical and intensive care Environment. <p>B. Specifications</p> <ol style="list-style-type: none"> 1. Dimension and weight <ol style="list-style-type: none"> a) Height 150cm or 162cm b) Width 46cm or 49cm

SNo	Name of equipment	Specification
		<p>c) Depth 60cm d) weight 80kg or 60kg</p> <p>2. Electrical Data</p> <p>a) Supply 100/120/230/240V AC + 107q 50/60Hz or 100-240V AC + 5" 50/60Hz</p> <p>b) Current consumption max. 1.2 A(230V) or 2.5A(240V)</p> <p>3. Electric Safety</p> <p>a) Type of protection Safety class I against electric shock</p> <p>b) Degree of protection Type CF against electric shock or Type BF</p> <p>4. Flow rates (depending on treatment mode)</p> <p>a) Blood flow 0,10 - 500ml/min +10% or 10 - 450ml/min +10%</p> <p>b) Substitute flow 0,600 - 9600ml/hr, regulated or 100 - 8000ml/hr</p> <p>c) Dialysate flow 0,600 - 9600ml/hr, regulated or 100 - 8000ml/hr</p> <p>d) Plasma exchange rate 0, 10 – 50 mL/min, regulated</p> <p>e) Ultrafiltration rate 0 - 6000ml/hr, regulated or 0 - 2000ml/hr</p> <p>5. Balancing</p> <p>a) Number of scales 4 or 3</p> <p>b) Measuring principle gravimetric</p> <p>c) Max. load on scale 12 kg or 11kg</p> <p>d) Resolution 1 g</p> <p>e) Deviation in linearity max. +1%</p> <p>6. Heating</p> <p>a) Substitute temperature up to 39°C or 40°C</p> <p>b) Dialysis fluid temperature up to 39°C or 40°C</p> <p>7. Features</p> <p>a) Screen 10.4", TFT-LCD or High Resolution Color screen</p> <p>b) Service menu setting via screen</p> <p>8. Extracorporeal blood circuit and protective systems</p> <p>a) Arterial pressure monitoring</p> <ul style="list-style-type: none"> - Display range -280 to +300 mmHg or -250 to +300mmHg - Accuracy ±10mm Hg or ±8 mm Hg <p>b) Venous pressure monitoring</p> <ul style="list-style-type: none"> - Display range -80 to +500 mmHg or -50 to +350mmHg - Accuracy ±10mm Hg or ±8 mm Hg <p>c) Transmembrane pressure monitoring</p>

SNo	Name of equipment	Specification
		<ul style="list-style-type: none"> - Display range - 60 to + 520 mmHg - Accuracy ± 10mm Hg d) Pre-filter pressure <ul style="list-style-type: none"> - Measuring range 0 to +750mmHg or 50 to +500mmHg - Accuracy ± 10mm Hg or ± 8 mm Hg e) Air detector <ul style="list-style-type: none"> - Measuring principle detection by ultrasound transmission, additional optical monitoring in venous clamp - Sensitivity drop in fluid level, air bubbles or micro foam f) Blood leak detector <ul style="list-style-type: none"> - Measuring principle optical - Sensitivity ≤ 0.5 mL blood/min HCT 32 % at maximum filtrate flow g) Syringe pump (anticoagulants) <ul style="list-style-type: none"> - Continuous flow 0,0.1 - 25mL/h or 0.0.5 - 5.0mL/h - Bolus function 0,0.1 - 5ml/Bolus <p>C. <u>Consist of</u></p> <ul style="list-style-type: none"> a) Main Body b) Pump c) Display d) Pressure Port e) Air Detector & Venous Bubble Catcher f) Heater g) Venous Line Clamp & Optical Detector h) Blood Leak Detector i) Operation manual j) Service manual
29	Portable Echo Cardiography Machine (ICU Dedicated Ultrasound and Echo Machine)	<p>A complete dedicated digital echocardiography unit for wide range of premium performance application of cardiovascular imaging in pediatric and adult. Mobile trolley mounted system with built in workstation / data management system for digital acquisition, storage, and review of complete ultrasound studies including static and dynamic clip in DICOM format, read /write zoom. Studies can be reviewed and output to CD / DVD / MOD. The machine must have sharp and high quality image reproduction with heavy duty performance. It should have minimum following specification:</p> <p>Display: High resolution 1280 X 1240 non interlaced, flicker free.</p> <ul style="list-style-type: none"> • Should have flat panel high resolution display monitor minimum 15 inch.

SNo	Name of equipment	Specification
		<p>Operating Modes: B, 2D and 3D Imaging, M-Mode, Power Doppler, HPRF, Spectral Doppler, Color Doppler, Velocity Mode, Pw Doppler, Duplex And Triplex Doppler, CW Doppler Steerable and ECG Gating, Capable of Performing 4D View.</p> <p>Control Panel: Alphanumeric keyboard with built in trackball. Direct access to system functions through dedicated keys. Indicator lights identify activated keys. Auto volume control with bidirectional / stereo speakers and foot switch User selectable image magnification control. Adjustable transmit focusing control. Total and Lateral Gain Compensation Controls (6 or more).</p> <p>Caliper / Measurement 6 to 8 calipers for measurement per screen trace length measurements for: Distance, angle, distance depth from skin line, area, circumferences, compound / volume, slope, time, heart rate and acceleration.</p> <p>Application Cardiac, Peripheral, pediatric, adult, cephalic and transesophageal with all required software for measurement and according with transducer.</p> <p>Operating Modes: 2D tissue, 2D angio flow, color M-Mode, tissue velocity M-mode, tissue strain imaging, disynchrony imaging, continuous wave Doppler, tissue velocity imaging, tissue tracking, tissue synchronization, blood flow imaging, blood flow angio flow imaging, 2D wall motion tracking.</p> <p>Display Modes: Live and stored display format: full size and split screen. Review image format: for still and cine, simultaneous capability B+PW, B+CFM/TVI+PW, CW, B+ or triplex mode, B+ color split screen display, 9-slice view. Tissue Imaging, 2D mode, multi dimensional mode, M-mode, color Doppler imaging, color flow imaging, color Doppler imaging, color angio, color m-mode, blood flow imaging, blood flow angio imaging, tissue velocity imaging mode, tissue tracking mode, tissue synchronization imaging mode, PW / HPRF Doppler, CW Doppler, contrast imaging, LVO contrast, Vascular / abdominal contrast, vascular calculations, cardiac measurement.</p> <p>FRAME RATE: Min. 200 fps in B-Mode and 100fps in Doppler mode.</p>

SNo	Name of equipment	Specification
		<p>CINE MEMORY Min. Sine memory for 500 frames or 250MB min.</p> <p>IMAGE VIEWING DEPTH: 20-280 mm or more for cardiac application</p> <p>IMAGING MODES / TECHNIQUES: Tissue harmonic Imaging, tissues Doppler imaging, Color Angio, Tissues Velocity Imaging</p> <p>Tissue Imaging: (Display Real Time Doppler shift information from moving tissues to better visualize and quantity myo cardial function). Capability to display time differences in myo cardial motion in color for CRT (cardiac resynchronization therapy).</p> <p>Quantitative Strain rate imaging: An advanced quantity technique of tissue Doppler velocity. Strain rate is a measure of the contractile motion of myocardium.</p> <p>Auto – Tracking contrast quantification: quantitative technique for online assessment of contrast agent images.</p> <p>Contrast Plus Sequencing Technology: a real time, low mechanical index, non-linear imaging technique for contrast agent examinations. The software should have the capability to show contrast agent only, tissue only or contrast and tissue displays.</p> <p>Contrast harmonic imaging capability. Vascular imaging software for carotids with IMT measurement.</p> <p>STRESS ECHO: Integrated multi stage stress echo system for advance and flexible stress echo acquisition and measurement for LV B-Mode imaging. Quantitative analysis for contrast during stress. Examinations. Used with TDI protocols</p> <p>EXTERNAL STORAGE DEVICE Built in MOD / CD / DVD drive with 10 diskettes.</p> <p>SYSTEM DYNAMIC RANGE Dynamic range minimum 160 db or more</p> <p>COMMUNICATION SOFTWARE System should confirm to DICOM 3 communication software for: Image storage, print, query /retrieve, network communication.</p> <p>STANDERD TRANSDUCER Linear probe multi frequency to cover frequency of 6.0 -8.0 MHz. Multi frequency Phased array sector probe to cover 2.0/2.5-4.0 MHz. Multi frequency Phased array sector probe to cover 5.0 – 8.0 MHz. CW Pencil Probe Multiplane TEE Transducer (3-6 MHz) for adult. Multiplane TEE Transducer (4-6 MHz) for peads.</p> <p>Probes: Should be like weight, capable of multiple centre frequencies on transmit for both 2D color Doppler PW/CW (Steerable) Imaging and to</p>

SNo	Name of equipment	Specification
		<p>perform Harmonics.</p> <p>Ports: 3-Active switch able transducer transthoracic ports excluding pencil port Video output USB/ RS 232 Networking</p> <p>ACCESSORIES: Digital color Thermal Printer with 10 Packs of 100.. Online UPS for 10 Min. backup time of complete unit including printers. Digital B/W Thermal Printer with 50 rolls of papers. Jelly 20 L in bottles.</p> <p>FUTURE UPGRADES The unit should have the capability for a gradation of future software (shall be provided free of cost within the warranty period).</p> <p>POWER REQUIREMENT 220-240 VAC 50 Hz</p> <p>The equipments quoted should be of latest model. The supplier has to give an undertaking that no new model is being launched in the next 12 months. Meanwhile if a new model is launched due to any reason, whatsoever, the supplier will be bound to supply that new model without any extra cost.</p>
30	Bedside X-Ray	<p>High frequency – 30KW X-Ray Generator. 300 mA at 100 kv Anatomical Programmed radiography. Digital Display of all set parameters. Rotating anode x-ray tube, with dual focus 0.6 & 1/1.5 mm. Anode heat storage capacity of at least 200 KHU or more Electronic timer with exposure time of 1 msec. Chest stands with Bulky. Complete with grid 8:1 ratio. Automatic over protection device and automatic line compensation. 230V, 50-60 Hz.</p>
31	E.T.O. Sterilizer	<ul style="list-style-type: none"> • General Features <ol style="list-style-type: none"> 1. One Touch operation makes operator expertise & dependence unessential. 2. Repeatability of cycle parameters and lime assured. 3. Chamber made of stainless steel with baskets for easy material handling. 4. A unit dose cartridge of 100% pure Ethylene Oxide is punctured automatically inside the chamber with a unique puncturing mechanism. - 5. A printer is installed in the front panel of the sterilizer to permanently record time, batch no. , cycle parameters, cycle status, gas exposure time and aeration lime and fault messages. 6. Touch screen display shows the lime, cycle parameters, cycle

SNo	Name of equipment	Specification
		<p>status and exposure time. It also indicates the time remaining for gas exposure and aeration and fault messages and has a virtual keyboard for data entry.</p> <ol style="list-style-type: none"> 7. Flexibility of setting multiple sterilization cycles with possibility to set the all the parameters independently. <ul style="list-style-type: none"> • SAFETY <ol style="list-style-type: none"> 1. The cycle operates in vacuum and hence is safer to operate as there is minimum chance of leakage. 2. The electronic design provides accuracy of operation, dependability and repeatability. 3. As the door is provided with a interlock, hence unless the door is closed, the cycle cannot be initiated. 4. Once a cycle is started, the door gets locked automatically and does not open till cycle is complete. 5. The sterilizer aerates the load after sterilization and is continuous in one chamber and thereby eliminates gas exposure to operators during load transfers. 6. Cycle Completion record is shown on the printout and display and only after successful completion of batch. 7. Auto Abort facility in case of any abnormal conditions. • UNIQUE FEATURES <ol style="list-style-type: none"> 1. Special Software where cycle parameters can be programmed as per actual requirement of the load. 2. "ENVIRO-PRO" system which acts as a additional area safety feature by sucking air away from operator. 3. Unique "TRI AERA" system, to enhance removal of residual EO from the products. 4. Unique "LEAKALERT" "sequence which performs a leak test automatically at the beginning of each cycle, and if leakage is found, it alerts theoperator and aborts the cycle. 5. Fault and time out messages are displayed for easy diagnosis by operator and not only as Fault numbers. 6. Unique "ROTA-HEAT" system which enhances all round heating and lower electric charges. 7. Unique "AUTO-MAN" feature which allows Manual operation in case of emergency break down of Auto system. 8. Price economical with more features to price ratio. 9. Designed to work in tropical conditions and does not go in fault if the humidity or temperature is high.
	Ambu Mask	under process of RC finalization hence deleted
32	Isoflurane vaporizer	<p>-should be agent specific -calibration must be correct -pressure compensated -temperature compensated -flow compensated -selecta tee compatible -should have a local technical support engineers for 24 hours backup.</p>
33	Sevoflurane vaporizer	<p>Should be agent specific -calibration must be correct -pressure compensated -temperature compensated</p>

SNo	Name of equipment	Specification
		-flow compensated -selecta tec compatible -should have a local technical support - engineers for 24 hours backup -Scope of supply 1. Selecta tec vaporiser (sevoflurane)- 1 no 2. Key filler - 1 no 3. Manual - 1 no

Schedule-2:
Technical Specification for Obstetrics & Gynaecology

**List & Detailed Technical Specification of Equipments Required for Department
of OBSTETRICS AND GYNAECOLOGY**

SNo	Name of Equipment	Specification
1	Colposcope	The video colposcope must have magnification from min. 1x to max. 40x. Magnification Indicator should be on the video colposcope Resolution must be > 825 lines (Std.) > 1,000 lines (Gamma on) No of pixel should be 12,00,000 The image sensor must be 1/6 “ microlens color CCD with high speed Digital Signal Pr High MCD super bright white shadow less LED light for true colour reproduction Colour temperature should be 70000 K, light source life should be minimum 5000 hrs Auto focus range should be up to 30-40 cm Facility for fast focusing zooming, light source, image freeze using thump on the hand h Should be with E-flip & Mirror image function to ensure extended attention and perfect Acetic test timer and magnification indicator should be displayed on screen There must be Electronic Green filter in the hand held unit without decrease in illumina Control panel should have feather touch and water proof buttons. Facility for fast auto/r freeze function facility. There should be two built in Video output – BNC & SVHS on t Colposcopy image Management Software with computer with following facilities. Upp Image capturing while recording/playing. Final reports with one, two, three & four imag width of images. Reference: images with finding for comparison. Facility to save & ser format. Facility to get referral linked images. Online support facility (through internet) f Colposcopy software should run on both window XP & Vista operating systems Colposcopy assisted dynamic cases Facility to take colposcopy images with the colposcopy report on hard copy Facility to s procedure on CD Company have to provide trolley for personal computer Colposcope should be CE, ERTL & ISO certified Colposcope should be operated through remote control also Colposcope should be equipped with Gamma Processor to enhance vascular structure Colposcope should have Remote Control facility
	CTG Machine	under process of RC finalization hence deleted

2	Operating Laparoscopy Set	<p>Telescope 10 mm- 0 degree Telescope 5 mm-3 0 degree Specification High speed rod lens system Scratch resistant Adaptability to high intensity Xenon light 300 watts Trocar size 5/6mm- 4 Trocar only, with pyramidal tipcannula without valve, with insufflations Trocar size 10/11mm- 4 Trocar only, with pyramidal tipcannula without valve, with insufflations stop –clock, le Reducer 11/5 mm- 4 Coagulating & Dissecting Electrode, L- shaped, with connector pin for unipolar coagu cm- 01 Click Line Grasping Forceps, 2X4 teeth, rotating with connector pin for unipolar coagu double action jaws- 01 Click line KELLY Dissecting & Grasping Forceps, rotating with connector pin for unipol cm, double action jaws- 01 Bipolar Grasping Forceps Maryland dissector curved with fine horizontal serrations double jaw. size 5 mm, length 36 cm high frequency cord for bipolar instruments; length 300 cm fiber optic light cable, size 4.8 mm, length 250 cm endovision Cemra 3 chip color system power supply : 100-240 VAC, 50-60Hz suction & irrigation cannula 5 mm & 10 mm verees pneumoperitonneum needle metzenbaum scissors with connector pin for unipolar coagulation- Straight, Curved Monopolar high frequency cord- 01 PCOD Needle- 01 Uterine manipulator (Colptomizer) 01 Needle Holder Pistol Grip, Tungsten Cardiile Straight & curved jaws- 02 Post closure (Small Mochi) 01 Knot Pusher 01 Babcock's Laparoscopy forceps –20 mm Endobag - 01 DVD Writer- 01</p>
3	LCD screen (Monitor) with trolley	<p>LCD screen 14" x 12" pTrolley—Fiber polyester, laminated Shelves-4, Height-150cms, width-72,depth-75cms Connected wiring, switch panel fiber drawer, epoxy powder</p>
4	Digital CO2 insufflator	<p>-Flow rate-1 to 30 lbs/min -Output connection 4to 5mm 1D tube -Maximum input pressure 7 BAR -Minimum input pressure 2 BAR</p>
5	Laparoscopy Trolley and documentation system	<p>Overall approx size 680mmLx700mm Wx1570mmH - Suitable for keeping monitor light source camera unit printer and other peripheries of - 5 Shelf Top shelf of size 640X450 X(LXD) - Other four self size must be 510 mm L X 450D - Self must be adjustable at desire hight - Ms drawer at bottom -Aesthetically design vertical upright of aluminium extrusion & aluminium alloy base f wheel two with brakes</p>

		<p>Castor Housing & wheels made high grade non floor staining synthetic material with in having precision ball bearing to run smoothly Trolley must have provision for socket of S/15 amps – 230 Vac 3 pin plugs Each out put on- off switch with indicator & safety fuse Trolley must have provision for handless SS IV ROD & gas Cylinder cage mounted on swivel castors 50 mm dia All MS part are pre treated and powder coated finish Trolley must be supply with built in key board on shelves camera holder TV Monitor – 19 “ preferably holder</p>
6	Hysteromat	<p>Flexible hysteroscope with operating accessories:- Scissor 02 Grasper 02 Allis forceps 02</p>
7	D & C Set –	<p>Hegar dilator – Spong holding forceps- 2 Curette – 2 Blunt Sharp- 2 Allie Forcep -2 Sims Speculm – 2 Anterior Vaginal Wall Retractor -1 Ovum Forceps-1 Vullsellum -1 Uterine Sound-1 Small Bowl- 2 Kidney Tray- 1</p>
	Electronic Weighing Machine	under process of RC finalization hence deleted
8	Vaginal Hysterctomy Set	<p>Galicups (M) - 2 Kidney Trays (M+ Big)- 2 Sponge holders- 3 Needle Holder 2 (1 S+1 Big)- 2 6” curved artery forceps 1 set (6 No)-6 6” curved artery forceps 1 set (6 No)-6 6” Allys forceps 1 set (6 No)-6 Babcocks 2 No.s- 2 Kockers (cd) forceps 2 Nos, straight 2-4 long cd artery (6 No)- 6 Long Allys forceps 1 set (6 No)- 6 Deavers retractor Small – 2 Kellys vaginal retractor -1 Suction Cannula – 1 Myoma Screw-1 Cross action towel clips- 8 Mohnians towel clips – 6 BP handels- 2 (22-1) Nontoothed dissecting forceps- 2 Ntoothed dissecting forceps- 2 Mayo’s curved scissors- 2 Mayo’s straightscissors- 1 Mosquito curved artery forceps – 6 nos Mosquito Straight artery forceps – 6 nos Metal Urethral Catheter- 1 Bladder sound 1</p>

		<p>Sim's Speculum- 1 Miyas Hook Illuminated Sims Speculum wth fibre optic attachment wth fiber optic cable Light Source (Halogen) 250 Watt</p>
9	Digital High Definition Video Recording System and documentation system	<p>HDMI-1XHDMI Component -1xYPbPr Composite-1xRCA/CvBs Video Format-H.264 AVCHD M2TS Image Format- JPEG File System-FAT32</p>
10	Three Chip camera head & focusing coupler	<p>Resolution -3x752x582 Definition-1155lines Sensitivity-0.18Lux Signal to noise ratio-75db Electronic shutter-1/100 000 sec. Video outpurs-1 BNC, 1 RGB, 1 Y/c</p>
	Suction Machine	under process of RC finalization hence deleted
	Microscope binocular	under RC hence deleted
11	Shadow less mobile side lamp for O.T.	<p>single reflector mobile halogen OT Light completely spring balance with reserve halogen bulb. concealed transfer intensity control and main switch with voltmeter provided on front panel effective heat absorbing colour correcting felter provided for cool white and brill pre-treated epoxy powder coated light intensity –50,000 lux halogen bulb : 1 X 24V 150 W</p>
12	Ultrasound with Doppler and in-built printing and recording system	<p>Capable of processing and displaying 3D rendering of 2D images Broadband multifrequency Transducers-convex (abdominal) and TVS Include a full complement of measurement and calculation package Digital Ultrasonic System T issue Harmonic Imaging Software package along with format for Ob & Gy Real time dynamic ROF, RDA, DFP, DRA. *permanent inbuilt + USB images storage >256 frame line loop.S Ergonomic keyboard -back lit keyboard + direct printing, 6 STC slides for easy adjustment -multifunction knob + toggle for quick adjustment Scanning method – Electronic convex / Linear / Microconvex Display modes – B, B/B,UB, M, B/M Gray scale Probe frequency 2.5 MHz – 9.0 MHz Monitor - Zoom , Multi step Image processing & reversing Power supply Ac 230v + 10%, 50 Hz Standard - main unit + convex printer + 2 probe connector + USB ports + VGA Port (ex printer Trolley, Biopsy kit Multidisciplinary ultrasound color Doppler with pulse wave -spare part with ultra sound</p>

		<ul style="list-style-type: none"> -Beam former board -Transmitter board -Receiver board -Digital scan converter board -Power supply unit -Pobes X 2
13	Spermfuge machine	<ol style="list-style-type: none"> 1. Adgustable brake three modes in accelaration & braking 2. Different program for different application – RCF,RPM,Tube size, temprature, tim cedar 3. G – Force for ideal sperm pellet formation
	Caesarean set	under process of RC finalization hence deleted
14	Delivery Set	<ul style="list-style-type: none"> Episiotomy Scissor - 1 Long Artery Forceps- 2 Sponge Holding – 2 Tooth Forceps Needle Holder – 1 Small tray for making delivery kits(SS)
15	IVF Instrument	<ol style="list-style-type: none"> 1- Air Jacked CO2 Incubator with IR Sensor Special : <ul style="list-style-type: none"> Capacity 150 Ltrs Four Inner Glass Doors to saveloss of CO2 gas System to achieve Maximum relative Humidity & Dry Inner Walls Stainless Steel interior Standard Inner 4 Door Fan free Interior – Prevents building up of Germs Perforated shelves for uniform heat distribution Air Jacketed LCD Display Hot Air auto sterilization (180 C) 2. Integrated Laminar flow hood with heated table the integrated Laminar system is Oft cabinet. The utensils are warmed by heating A part of the table by means of special heat 3. Stereo Zoom Microscope <ul style="list-style-type: none"> Zooming Body With Diopter adjuster, rubber eye shield, reticle lead Diascopic stand C-Ds Diascopic stand S with reflecting lead Power Cord BE 6 V- 20 W halogen lamp with reflector CDs- 33 mm NCB 11 filter 4. Rocket of London Craft Ovum Aspiration pump with Foot operated Switch with Vac Specification <ul style="list-style-type: none"> Low Pressure: 0-550mm Hg= 0-666 Mbar Volume of overflow vessel: 2X100 Connecting for aspiration tubing 2 to 4mm Power Supply : 230 V Power Frequency : 50/60Hz Power Point : 50 VA Nominal Current: 220 mA Power Line isolation : 0.315 5. Indian Pressurizing Module <ul style="list-style-type: none"> Pressuring Module is used to create the positive inside culture lab Tech specification

		<p>Pressure: 250 CFM Construction: Laminated board Filtration: 0.3 μ Efficiency : 99.97% Construction : S.S body</p> <p>6. Digital Cell Transporter with steel body heating Block for heating of test tubes in removable aluminum blocks for maintenance of required temp. Digital display & control of temp. range from 5 to 11 c, 3 anodized blocks of 75X 50X50 mm to accommodate 12X13 ml and 12X6 ml</p> <p>7. Petri –Plate Prewarmer with Steel Body for preheating of slides, Petri dishes, pipettes Anodized aluminum heating plate (Approx dimension 300 X100 X40mm) Temp range: from ambient to 100C with accuracy of + 0.20C</p> <p>8. Microscope Stage Warmer with Steel Body for maintaining the temp of critical biological samples during microscopic observation. An anodized plate of 10 mm thickness with 50 mm x 50 mm dimension which should fit on most microscope stages. Temp range ambient to 55C with accuracy of + 0.20C</p> <p>9. Coda Aero Air purification unit Max Air flow: 530 CFM Effective coverage: up to 350 sq feet Application : more than 200 sq feet</p> <p>10. CL2200 Freeze control from CRYOLOGIC PTY LTD. Controlled Rate Preprogrammed Freezer for freezing Sperms, Oocytes, Embryos complete with Preprogrammed Controller LN2 bath (Capacity 1.5 L) Carry case Standard Cryochamber to freeze 23 Straws of 0.5 cc & 46 Straws of 0.25 cc</p> <p>Specification Temperature Controller Controlled Temperature range: 200C & 430C Temperature warning (ED or Sound): 1.50 C deviation Temperature display : Digital. LCD, 0.10C resolution Timing : Digital, Quartz Crystalline Internal Programs: Maximum number of fixed programs: 8 nos Others: continuous LN2 consumption/less than 1 Liter per hour Power consumption/less than 60 Watt</p> <p>Sperm/Embryo freezing TA- 26CRYOCAN, IBP make, 25.7 ltr Capacity with rubber ring & pad B) BA- 11 CRYOCAN, IBP make 10.7 ltr capacity with canisters (For large capacity) BA- 3 11 CRYOCAN, IBP make 10.7 ltr capacity with canisters (For Carrying frozen)</p> <p>12. Doctors friendly Software Reprosoft SOFTWARE is designed to cover important areas in a fertility clinic It can be used in a LAN environment with multiple users. Degrees of access to individual users</p> <p>13. Inverted Research Microscope: with Hoffman Modulation Contrast Inverted Microscope basic unit (100-240 V) 12 V- 100W Lamp house- 2 BL with pre-centered 100 W helogen Main Body, Side port Coaxial Coarse/ fine focus W /tension adjustment, Light distribution T-DH 100W Dia illumination Pillar supplied with detachable condenser carrier, diffuser ERremote Cable Helogen Lamp- 12 -100 W LL Power Cord BE 25 Inclinometer D 25 Inclinometer angle, Turret selector incorporated B/2.5*C/0</p>
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		HEPA filter
16	LLETZ	<p>Non conductive instruments can be used with any LLETZ/LLEP system</p> <p>Highly reliable,autoclavable</p> <p>Built in smoke tubes on all ‘duckbil’ specula.</p> <p>Electrosurgery unit features 5 treatment modes –purecut ,blend,coagulation,fulgrationand purecut and 80watt coagulation modes reduce electrode draw and assure quicker coagulation</p> <p>Square LLETZ electrodes 1cm*0.4cm sterile,disposable,box of 5;shaft :13cm(5’’)</p> <p>Loop LLETZ electrodes 0.5*0.5cm , sterile,disposable,box of 5;shaft :13cm(5’’)</p> <p>Loop LLETZ electrodes 1*0.5 cm, sterile,disposable,box of 5;shaft :13cm(5’’)</p> <p>Loop LLETZ electrodes 1*1 cm, sterile,disposable,box of 5;shaft :13cm(5’’)</p> <p>Loop LLETZ electrodes 1.5*0.5 cm, sterile,disposable,box of 5;shaft :13cm(5’’)</p> <p>Loop LLETZ electrodes1.5*1 cm, sterile,disposable,box of 5;shaft :13cm(5’’)</p> <p>Loop LLETZ electrodes1.5 *1.5cm, sterile,disposable,box of 5;shaft :13cm(5’’)</p> <p>Loop LLETZ electrodes2*1cm, sterile,disposable,box of 5;shaft :13cm(5’’)</p> <p>Ball LLETZ electrodes,3mm dia, sterile,disposable,box of 5;shaft :13cm(5’’)</p> <p>Ball LLETZ electrodes,5mm dia, sterile,disposable,box of 5;shaft :13cm(5’’)</p>
17	Obstetric labour table	<p>Overall approx extended size 1880 mm length*9000 mm width*800mm height</p> <p>Three section-top backrest adjustable on ratchet</p> <ul style="list-style-type: none"> -middle section with’ U’ cut -Leg end section can slide completely under main frame <p>Gas sparing assisted trendelenberg position</p> <p>SS head side railing,SS handgrips ,rubber padded SS lithotomy rods and SS bowl</p>
18	Vessel sealing & ultrasonic dissector system	<p>The ultrasonic dissector should have following features</p> <p>Shears must be possible to have a multiple plane cutting and coagulating</p> <p>Cutting & coagulating with ultrasonic energy</p> <p>Possibility to detach the Transducer from the patient cable to better maintenance</p> <p>Tissue gasping with using Parallel Jaw closure</p> <p>Should be compatible with only 5mm instruments</p> <p>The system should have stand by mode</p> <p>The power setting should be adjustable in 0.5 setting</p> <p>The ultrasonic dissector should have following instrument to handle following open and closed instruments such as</p> <ul style="list-style-type: none"> Shears of 5mm thickness and shaft length 291 mm-1no Shears of 5mm thickness and shaft length 380mm-1no Shears of 5mm thickness and shaft length 157mm-1no Ball probe-1no. Hook probe of 5 mm thickness and shaft length 350 mm-1no. Cable for ultrasonic transducer -1no. ultrasonic transducer -1no. Foot pedal for ultrasonic generator-1no.

Schedule-3:

Technical Specification for ENT

**List & Detailed Technical Specification of Equipments
Required for Department of ENT**

S No	NAME OF EQUIPMENT	SPECIFICATION
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1	Endolaryngo-Stroboscope set	<p>Fiberoptic laryngoscope 10 mm 70⁰</p> <p>Stroboscope for larynx examination ,with built in antifog –air pump ,power supply : 100/ 120/127/220/230 VAC, 50/60 Hz</p> <p>Specifications:</p> <p>Slow –motion mode strobe frequency : 0.5- 2 Hz.Phase position: 0-400 hz, overlapping strobe phasing adjustment range</p> <p>Operation mode : continuous (cold light),still picture ,slow motion (stroboscope).Microphone:high sensitivity</p> <p>Dimensions :470 mm × 135 mm × 410 mm</p> <p>Consist of: Mains cord</p> <p>Laryngostrobe</p> <p>Footswitch</p> <p>High sensitivity microphone</p> <p>Laryngoscope holder</p> <p>Silicon tubing set</p>
2	Diode laser	<p>Specifications Wavelength (nm) 780nm Diode Power (mW):5/20</p> <p>Operation Voltage:3~5v Beam Diameter:3mm Beam Divergence: < 0.5mrd Operating Current at 25Deg C <50mA Collimating lens: Aspheric plastic lens Case material: Brass MTIF (Mean Time To Failure)2000 hrs. of operation Specifications of Laser Diode Module of 30mW 830nm Modulation Frequency 100 KHz Modulation Level 100% (signal on) & 20% (off) of optic output power Max. Optical Output power ~ 70% of max. diode power (w/o front cover, 7mm aperture) Wavelength (nm) 830nm Diode Power (mW)30mW Operation Voltage:5V/12V Operation Temperature -10 +/-40/50/60/70⁰C Beam Diameter 7mm (w/o front. cover), 4mm (w/front cover) Beam Divergence <0.8mrd Bore Sighting <15mrd Operating Current at 25⁰ C <50mA; Collimating- lens 3-element glass lens Case Material: Black. Anodized (Aluminium) Life time·2000 hrs. of operation</p>
3	ENT treatment unit with patient chair and with work station	<p>ENT Treatment unit with patient chair and with work station</p> <p>Compact design with thermal resistant workshop and auto touch control panes</p> <p>Large aluminium pull out tray with dividers for keeping various sterile instruments</p> <p>Containers with flap openings for keeping used instruments and wastes</p> <p>2 power sockets 230V should work on 230 V with deviation of 50/60 hz</p> <p>Should be equipped with</p> <p>Large illuminated LCD display</p> <p>Menu system and digital adjustment of equipment</p> <p>Recording and editing software</p> <p>PC link and arrangement of coupling PC with controls</p> <p>Endoscopy counter with telescope 0 degree view 4 mm diameter & 175 mm working length</p> <p>Suction use counter which should have –Suction hand pieces with tubings capacity 70 ltrs per minute vacuum 0.80 bar, receptacle with overflow valve for suction system, suction tips 1 mm, 1.5 mm and 2.5 mm</p> <p>Compressed air system with spray hand pieces</p> <p>Warm water irrigation system</p>

		<p>Inline water filter with connectors Ear rinse cap</p> <p>Pre heated for mirrors</p> <p>Microscope with minimum 3 step magnification changer and spare bulb</p> <p>Compatible digital video camera</p> <p>C mount adopter water proof</p> <p>Microscope beam splitter with integral endoscope adopter</p> <p>17 inch TFT monitor with LCD Flat screen</p> <p>Integrated fiber optic light source with fiber optic cable for telescope</p> <p>fiber optic light source 150 W halogen for head light</p> <p>fiber optic head light with integrated fiber optic cable</p> <p>cautery Poer out put</p> <p>doctor stool with – 360 degree ratable adjustable back and height</p> <p>cross type base</p> <p>patient chair with – electrical height adjustment, arm rest, footrest,</p> <p>6 flat diagnosis program</p> <p>7 should be compatible with future development</p> <p>8 protection cover for microscope and work station</p>
4	Operating microscope with viewing tube & endo camera with monitor	Operating microscope with viewing tube & endo camera with monitor zoom. Motorized with foot control objective lenses 200, 300, 400 with side tube and camera (CCTV) with monitor
5	Operating microscope wall mounted for OPD with zoom,	Operating microscope wall mounted for OPD with zoom, motorized with foot central objective lenses 200, 300, 400 with side tube and camera(CCTV) & Monitor 17''
6	Headlight with internal fiber optic light cable fully adjustable	Headlight, light model illuminated area 65 mm in diameter with 46 cm working distance; with thin integral fiber optic light cable, diameter 2.5 mm, with fully adjustable, comfortable headband - Headlight adjustable in 3 dimensions vertical adjustment at the headband, front part Rotatable through 45° to the left and to the right and 165° downward - Self retaining in any position no deviation from desired position
7	Headlight with internal fiber optic light cable fully adjustable with camera	Headlight, light model illuminated area 65 mm in diameter with 46 cm working distance; with thin integral fiber optic light cable, diameter 2.5 mm, with fully adjustable, comfortable headband - Headlight adjustable in 3 dimensions vertical adjustment at the headband, front part Rotatable through 45° to the left and to the right and 165° downward - Self retaining in any position no deviation from desired position With adjustable focus & field controller
8	Wireless endoscope	1/18" Color camera Pixel :320x240(NTSC) TV Lines 0. 77mm/F3.0 2Lux / Fl.2 DC 3.3 V dimensions: (D) 7.5mm x 12.5mm (D) 3.5mm X 23mm
9	Heavy duty shadow less operating light for ENT OT similar make major+minor(O.T.)	Specially designed for providing cool & high intensity light colour- correcting heat & high intensity. Light colour- correcting heat radiation in the field. High performance special halogen light sterilizable handle provided for positioning of lamp possibility of wide range of radial, Angular & axial smooth movements. Technical specification Type of lamp ceiling with twin domes seven+four reflector Dome 1 dome 2

		<p>Dome Size 712mm approx 557mm approx LUX intensity 80,000 LUX+-10% 50,000 LUX Temp. 4300+-10%K4300+-10%K Temp. Inc.2°C+-to 4°C ambient Light field diameter 15-20cm Halogen bulb 24 W Power supply 220 V Ac, 50/60Hz 220V AC 50/60 Hz</p>
10	Otoscope pen torch	<p>Model Magnification Ring illumination with Halogen bulb attachment for air pressure (changes Battery Operated using AA pen torch cells Spare Batteries and spare Bulbs 3</p>
11	Rigid Esophagoscopy set	<p>Oval Esophagoscopes with fibreoptic light carrier distal illumination with handle. length 30 cm OD 10 mmx14 mm length 50 cm OD8mmx12mm length 30 cm and OD 12 mmx16mm Optical pediatric and adult forceps for esophagoscopes, optical alligator forceps, optical forceps for peanut and soft foreign bodies and optical universal forcep Esophagoscopy forceps, alligator grasping peanut grasping, circular cup biopsy, punch biopsy, scissors straight, trituration of bone, universal biopsy and grasping forcep.</p>
12	Bronchoscope set (pediatric & adult) complete set with all accessories including forceps	<p>Bronchoscope paediatric Bronchoscope, length 30 cm size 6 Bronchoscope, length 30 cm size 5.5 Bronchoscope, length 30 cm size 5 Bronchoscope, length 30 cm size 4.5 Bronchoscope, length 30 cm size 4 Bronchoscope, length 30 cm size 3.5 Bronchoscope, length 30 cm size 3 Bronchoscope, length 30 cm size 2.5 Bronchoscope adult Bronchoscope tube universal, with fiber optic light carrier, length 43 cm, size 8.5 Bronchoscope tube universal, with fiber optic light carrier, length 43 cm size 6.5 Accessories for bronchoscopy Prismatic light deflector with connection for fibreoptic cable light carrier. Glass window plug Instrument guide for aspiration catheter Adaptor to respirator Sealing plug for respirator connection Rigid suction tube 50 cm length x2.0 mm dia, 35cm lengthx2.0 mm dia, 25 cm length x2.0 mm dia. Bronchoscopic forceps Peanut grasping 55 cm length x2.5mm diameter Crocodile alligator forceps straight, Lt&Rt Circular cup biopsy forceps standard 35 cm lengthx2.5mm diameter Alligator grasping 45 cm length x2.0 mm dia</p>

		Rotating Sharp pined peanut grasping (f) circular cup biopsy fenestrated forceps 35 cm length x2.0 mm dia, 25 cm length x2.0 mm dia
13	Drill engine complete with micro foot control and connecting cord	Output-DC30V/0.5A, Input-AC 110V/220V 50/60 Hz, Motor-brush motor RPM- Handpiece Max. Micromotor For forward and reverse cutting 35000 RPM (max) Straight Handpiece Contra angled Handpiece NSK Ex-6B NSK
14	ENT heavy duty operation table	ENT heavy duty operation table with complete hydraulic and gear system tilt in any direction Table operating-remote controlled electronic with CE mark Technical specification: length 1910mm, width 530mm, maximum height 950mm, minimum height 750 mm, trendlenberg, upto 30°, reserve trendlenberg, up to 20° lateral tilts 200 both side
15	Cautery bipolar electrosurgical STE standard and standard accessories	Diathermy micro processor based surgical diathermy for all kind of microsurgeries. Electronic generator Out circuit: floating; protected against defibrillator with HF leakages less than 10 mA Cooling:convection without fan Frequency:475 khz HF leakage currents control:By microprocessor with automatic decrease of RMS voltage Neutral plate safety: by microprocessor with control of both connections and Electrode/Tissue contact with Visual sighai and Audible alarm Input power:220v-50Hz 220V-50Hz control systems: By microprocessor based stem Adjustable power:By fine adjusting knob Digital display: according to the digital display it shows the direct output by numeric representation (Easy for the surgeons to set the optimum power) Acoustic and luminous singals: Cut-Low sound: Yellow light Coag-High sound,Blue light Neu plate-Audible Red light alarm.
16	Video laryngoscope with telescope	Video laryngoscope with telescope Special features Straight forward telescope 15°, diameter 4 mm working length 18 cm autoclavable Video laryngoscope working length 18 cm for adults medium size
17	Distending operating laryngoscope	Distending operating laryngoscope Pediatic size length 13.5 cm for use with fibre optic light carrier and suction tube Fibre optic light carrier diameter 4 mm for use in central channel laryngoscope Suction tube to remove vapour for laser treatment diameter 2 mm for use in central channel of laryngoscope length 10.5 cm
18	OAE screener	Specification for OAE Screener Test type: - DPOAE, TEOAE Test Should have wireless data transmission facility to laptop by Infrared / Bluetooth technology.

		<p>Should be also stand alone unit & have storage facility more than 300 patients.</p> <p>Should be battery (NIMH) operated with operating life 24 hours.</p> <p>Should have frequency range up to 6000 Hz for DPOAE.</p> <p>Should have frequency range up to 5000 Hz for TEOAE.</p> <p>Frequency Intensity Range : 45 to 70 dB SPL</p> <p>System must have programmable test frequency.</p> <p>Result should display- Pass, Refer, Noise or graphical.</p> <p>Should have automatic operations for screening & calibration of probe.</p> <p>Should have the facility of set the environment.</p> <p>Should have data management software for interface with PC. r</p> <p>Should have low battery, dead battery, database error, internal circuit error alarm.</p> <p>Should be CE certified & ISO certified manufacturing.(Attach certificate)</p> <p>Should supply with following accessories: -</p> <p>Probe - 01no.</p> <p>Infrared or blue tooth PC adaptor USB port - 01 no.</p> <p>User Manual - 01no.</p> <p>Database Management Software - 01 no.</p> <p>Infant Ear tips Kit, 25 each (3.5,4,5,6,7mm) - 01 box</p> <p>Child/Adult Ear tips kit, 25 each (7,8,9,1.0,11 mm) - 01 box</p>
19	BERA - audiometer	<p>Technical data</p> <p>Output data:</p> <ol style="list-style-type: none"> 1. Frequency range Air conduction: 250Hz (90dB), 500Hz (120dB), 750Hz (120dB), 1kHz (120dB), 1.5kHz (120dB), 2kHz (120dB), 3kHz (120dB), 4kHz (120dB), 6kHz (110dB), 8kHz (110dB) 2. Frequency range Bone Conduction: 250Hz (50dB), 500Hz (60dB), 750Hz (60dB), 1kHz (60dB), 1.5kHz (60dB), 2kHz (60dB), 3kHz (60dB), 4kHz (60dB), 6kHz (60dB) 3. Frequency Accuracy : < 3% 4. THD + N : < 3% 5. HL accuracy : within 2dB 6. O/p level step size : 5dB 7. Attenuator accuracy : within 1 dB 8. Tone present : pulse & continuous 9. Masking : wide band 10. Live speech : 2 × microphone inputs 11. Level indicator : monitors live speech 12. PC interface : with RS 232 port 13. Display : 1 line of 16 characters 14. Power: 90 – 270 Volts (50 -60 Hz) <p>Software : Program details in CD</p> <p>Dimensions : Length : 225mm Width : 165 mm Height : 40 mm</p> <p>Weight : Absolutely lightweight as compared to other brands almost only 800 Grams</p> <p>Memory : Depending upon hard disk capacity of PC</p>

20	Impedance audiometer or middle ear analyzer	<p>Technical data</p> <p>Tympanometry mode</p> <p>Prob frequency , intensity – 226Hz =/- 1%, 85 db spl into cm³</p> <p>High frequency – 678hz /800 hz /1000hz</p> <p>Pressure range - +300 to 600 dapa</p> <p>Volume range .1 to 6 ml</p> <p>Accuracy + /- 5% or +/- 10dapa</p> <p>Test time <3 second</p> <p>Reflex mode</p> <p>test frequency - 500,1000,2000,4000, hz +/- 2 %</p> <p>Noise stimuli - WN/HP/LP</p> <p>Test method - ipsilateral , contralateral</p> <p>Intensities ipsilateral - 70....105 db HL</p> <p>Intensities contralateral – 70...110 db HL with button contra phone</p> <p>70...120 db HL with TDH 39</p> <p>contraphone</p> <p>Ipsilateral reflex test – with AGC</p> <p>Intensity setting – automatic or manual</p> <p>Reflex decay mode</p> <p>Test time - 13 sec , 10 sec , auto tone present</p> <p>Eustachian tube mode</p> <p>Pressure range +400 to – 400 dapa</p> <p>With printer , and portable</p>
21	Micro laryngeal forceps	<p>Required 2 each</p> <p>Instrument</p> <p>Micro laryngeal forceps serrated jaw 25cm , 35 cm, left 25 cm, right 25 cm, upward 25 cm, cup jaw straight 25 cm, left , right and upward 25 cm</p> <p>Micro laryngeal scissor straight , left , right and upward 25 cm</p> <p>JACKSON grasping forceps 25,35,45,55 cm</p> <p>Foreign body forceps 25,35,45,55 cm</p> <p>PATTERSON biopsy forceps 25,35,45,55 cm</p> <p>Biopsy cup forceps 25,35,45,55 cm</p> <p>Biopsy punched forceps 25,35,45,55 cm</p> <p>JACKSON foreign body forceps 25,35,45,55 cm</p> <p>JACKSON alligator forceps 25 ,35,45,55 cm</p>
22	Electric cautery with all accessories	<p>Required 1 each in number</p> <p>Heating voltage 0-3 V (no load)</p> <p>Heating current : 5.5A – 13.5A</p> <p>Spotlight Voltage : 0-2.5 V</p> <p>Supply Voltage : 220/110, 50Hz</p> <p>Power Consumption : 80 W</p>
23	Micro ear surgery instruments :-	<p>TECHNICAL SPECIFICATIONS: The set should contain -</p> <p>Sickle knife</p> <p>Ring Curette</p> <p>House Curette</p> <p>Hook</p> <p>Flap Knife</p> <p>Straight Needle (Perforator)</p> <p>Malleus Nipper</p>

		<p>Knife for meatal skin incision Bayonet Shaped Elevators for meatal wall Curette for tympanic ring Fine probe for testing the movement of Foot plate of Stapes Mobilisers for severing adhesions involving stapes Oval Scoop Oval window fenestrator Fine suction with stilette Hartman aural dressing forceps Micro-scissors Graft holding forceps or crocodile forceps Straight cup forceps- 2 mm Upturn cup forceps- 2 mm Down turn cup forceps- 2 mm Right side cup forceps- 2 mm Left side cup forceps- 2 mm Canal Mastoid retractor Tympanoplasty knife Micro elevator Right angle pick 45 degrees pick Small curved pick Horizontal knife Rosen's Myringotomy knife Incus Holding Forceps Thumb Rest Elevator Alligator forceps- 2 mm</p>
24	CO2 laser system	<p>TECHNICAL SPECIFICATIONS for CO2 LASER SYSTEM LASER TYPE - Ultra Pulsed CO2 Laser with Micromanipulator / Coupler, Operating Microscope, CCD Camera / Coupler, Beam Splitter, 22"Flat Screen LCD Monitor, Electrically operated 180 Degree Inclinable, Hight Adjustable - Patient Treatment Chair and Hydraulic / Mechanical Lever operated - Doctor's chair. LASER CONFIGRATION - SEALED OFF CO2 GAS, DC EXCITED. WAVE LENGTH - 10600nm – 10.6 Micron. MODE STRUCTURE - TRUE WG TEM₀₀ MODE POWER TO TISSUE - CONTINUOUS, PULSED, ULTRA PULSED 1 - 40W PULSE DURATION - SUPER PULSE:400-800ms ULTRA PULSE < 300ms PEAK POWER - 300-1200W MICROPROCESSOR - SELF DIAGNOSTIC & SELF CALIBERATION PURGE AIR - AUTO PURGE AIR. HAND PIECES - 50mm & 100mm SPOT SIZE - 0.1mm - 0.2mm at Focus. DISPLAY - LCD Touch Screen MEMORY - USER PROGRAMMABLE MEMORY SETTINGS BEAM DELIVERY - ARTICULATED ARM 7 MIRRORS - TITANIUM. AIMING BEAM - 635-670nm, 5mw,Red Diode</p>

		<p>- ADJUSTABLE BRIGHTNESS, COOLING SYSTEM - CLOSED CYCLE PURIFIED WATER TO AIR POWER INPUT - 3-6A, 220V AC / 50Hz. WEIGHT - 60KGs.</p>
25	Bipolar RFA for ablation in ENT region with auto stop function.	<p>Specification of Radio Frequency Induced Thermo-therapy Units (ENT) Should be based on the principle of Radiofrequency induced Thermo-therapy for minimal invasive surgeries. Should be interstitial form of therapy which can be performed under local anaesthesia. Surface of the organ should remain intact. Current should be induced through bipolar applicators. Should not need any neutral electrodes. Tissue should be heated over 60 deg. C. Should provide a rapid procedure. Should have constant real-time monitoring of the coagulation process Should provide end-of-procedure signal. Should have automated power control to exclude overdosing. Should have footswitch control. Should be a compact unit and should be supplied with different applicators and probes. Should be certified acc. to CE and IEC601.10 safety standards. Consumables Probes for treatment of Habitual snoring & Hyperplastic palatine tonsils in adults and children with conical tip & 1.3mm dia Probes for treatment of mild obstructive sleep apnea with trocar tip & 1.3mm dia Probes for treatment of Hyperplasia of the nasal concha, Habitual snoring (combined treatment) and Mild obstructive sleep apnea (combined treatment) with conical tip & 1.1 mm dia Probes for treatment of Nasal polyps, especially recurrent polyps with conical tip and 1.3mm dia Angled and bayonet Forceps with cables for tissue and vessel coagulation to stop bleeding in ENT and surgery. Should use Bipolar RFITT for the cutting system Should not require any neutral electrode Should have the power setting of 1-25Watts Should be compatible with cutting electrodes of 0.2mm dia & 10mm length Should be supplied with Surgical Forceps Electrodes, Cutting Electrode Grip & connecting cables Consumables Cutting Electrodes</p>
26	Electronystagmography (ENG) machine	<p>SYSTEM CAPABILITIES :-</p> <ul style="list-style-type: none"> . Input channels :4 . Low filter:1,2 or 4 seconds . High filter:7.5/ 15/ 30 Hz . Coupling:DC Response . Input offset voltage Range:+ 16mV . CMMR:> 14 dB . Noise: < 5microV peak to peak max with input shorted

		<ul style="list-style-type: none"> . Notch filter:50/60 Hz . Resolution(ADC):14 bit . Sampling rate: 500 Hz . Sweep speed:5/10/20 mm/sec . Range of eye position tracked: + 30 degree horizontal and vertical . Linearity.Horizontal:1% full scale Vertical:1.2% full scale . Input power:120/240 VAC , 50/60Hz <p>OPTICAL STIMULUS:-</p> <ul style="list-style-type: none"> . Type:Light bar . Patient to bar distance :1 metre . Target position:Gaze targets + 30 degrees . Pursuits and saccades:computer controlled . Target size:< ½ degree . Optokinetic:6 targets <p>ELECTRODES :-</p> <ul style="list-style-type: none"> . Type:Ag/Ag Cl Disc electrodes <p>MINIMUM COMPUTER CONFIGURATION :-</p> <ul style="list-style-type: none"> . CPU: PC IBM Compatible with P-IV, 512 MB , 80 GB HDD, 1 SL, 1 parallel, 4 USB Port. . Monitor:15 inch colour . Operating system:Windows Vista . Printer :Windows compatible Inkjet/Laser jet <p>With soft wares</p>
27	Cryotherpy unit	<p>Pressure indicator Interchangeable tip Foot pedal control</p>
28	Telescope handle	Stammberger telescope handle flat
29	Hartman’s nasal speculum	L-13cm,
30	Septum needle	Angular, leur lock
31	Cottles elevator	L-20cm, double ended semi sharp & blunt
32	Kuhn bolger frontal sinus curette (55° curved)	Small oblong, forward cutting length 19cm, 55°curved
33	Kuhn bolger frontal sinus curette (90° curved)	Small oblong, forward cutting length 19cm, 90°curved
34	Otologic Drill System	<ul style="list-style-type: none"> • Hand piece weighs only 2 oz. • Variable speed, footswitch-controlled • Speeds up to 12,000 RPM • Self-powered or use with MPS console with optional adapter • Full range of color-coded Oto-Flex burs available • Drill is also compatible with XPS 2000 Console including: Otologic Drill System Ultra-Lite Hand piece Accelerator Foot Control 9V Batteries (package of 12) Otologic Metric Scale Oto-Flex Bur Set (6 burs)
35	Facial Nerve Monitor	<ul style="list-style-type: none"> • Monitor • Stimulator

		<ul style="list-style-type: none"> • Current output 0.0- 10.0 milliamperes (mA) • Pulse width 0.0002 sec + 20 micro seconds • Pulse off time 0.1998 seconds • Pulse frequency 0.200 seconds (5 Hz) + 5 milliseconds
36	Cochlear Implant Kit	<p>Including:</p> <ol style="list-style-type: none"> 1. Stimulator Template 2. TEMPO+/OPUS Template 3. Skin Flap Gauge 6 4. Surgical Claw Angled 5. Micro Forceps Left Angled 6. Micro Forceps Right Angled 7. Diamond Burr 1.2 mm 8. Diamond Burr 0.6 mm 9. Sterilization Tray
	C-Arm	under RC hence deleted
37	Burrs	<p>Burrs: Cutting 0 to 5 number -one each Polishing 0 to 5 number - one each Diamond 0 to 5 number- one each</p>
	Pure tone audiometry	under RC hence deleted
38	ENT operating microscope for minor operation theatre	Operating microscope with viewing tube &. Endo camera with monitor Zoom, motorized with foot control objective lenses 200, 300,400 with side tube and camera (CCTV) with monitor
39	Temporal bone lab microscope	Operating microscope Wall mounted for OPD Zoom, motorized with foot control objective lenses 200, 300,400 with side tube and camera (CCTV)
40	Drill Machine with mastoid set for temporal bone lab	<p>Micro drill: Surgical micro motor/ drill 50,000 rpm foot and hand control with different special department bur bits. Straight Hand piece: Straight hand piece with quick toll clamping type of shank @ 2/35, L 70 mm (TWO IN NUMBER) Contra Angle: Contra angle with quick tool clamping type of shank @ 2.35 mm, L 70 mm.</p>
41	Flexible Laryngoscope	<ul style="list-style-type: none"> • Working length-300mm(nominal) • Angulation-140degree up & down • Field of view- 90 degree • Depth of field- 3mm-50mm • Distal tip diameter- 3mm(nominal)
42	Cryosurgery Unit	<ul style="list-style-type: none"> • Consoles containing cryogen gas cylinders, pressure regulators, indicators and operating controls. • Hypodermic needles • Silencer • Probe tips
43	Micro Drill with hand piece with burrs of sizes	<ol style="list-style-type: none"> 1. Micro drill: <ul style="list-style-type: none"> • Surgical micro motor/ drill 50,000 rpm foot and hand control with different special department bur bits. • Straight Hand piece: Straight hand piece with quick toll clamping type of shank @ 2/35, L 70 mm (TWO IN NUMBER) • Contra Angle: Contra angle with quick tool clamping type of shank @ 2.35 mm, L 70 mm.

		<p>2. Burrs</p> <ul style="list-style-type: none"> • Cutting 0 to 5 number -6 each • Polishing 0 to 5 number - 6 each • Diamond 0 to 5 number- 6 each
44	Accessories for nasal endoscopes (Instruments, endo camera & monitor for visualization)	<p>1. Fiber optic light cable length 250 cm size 5 mm</p> <p>2. Endoscopic camera Endo Camera 3 chip-- camera vision system I high definition includes HD camera control unit 220v camera head w/24mm coupler, 3.15 mtr. cable cat. Specifications and Features: The only medical grade camera with the true digital output high definition digital circuitry 3 chip camera. With 8 steps built-in digital enhancer. Electronic Zooming HD Features digital, Progressive scanning Digital: Hi definition (HD) video-1280 x 1024 native resolution incredibly small and ergonomic camera head-for superior comfort and control Standard aspect ratio-allows you to maximize existing video equipment Progressive seal technology-optimum image quality with superb resolution Digital outputs - DVI necessary to take advantage of digital Hi definition fidelity four button camera head design - control of 6 functions from the camera head Multi-Specialty settings-user selectable Specialty setting which customize video output for the unique needs of your cases</p> <p>3. LCD Monitor</p> <ul style="list-style-type: none"> • BrightView Technology enhances clarity and provides brilliant colors • 1920 x 1200 factory-set resolution • Video inputs supported: <ul style="list-style-type: none"> • VGA analog signal • DVI-D digital signal • Integrated speakers • Built-in USB hub with 3 USB 2.0 ports for connecting USB devices to the PC (requires a USB cable connection to the PC). • High-bandwidth Digital Content Protection (HDCP) to prevent transmission of non-encrypted high definition content • Plug and Play capability • Tilt adjustment • Height adjustment • Pivot adjustment, for landscape or portrait viewing (select models only) • On-screen display (OSD) adjustments for ease of setup and screen optimization

Schedule-4:

Technical Specification for Physiotherapy

**List & Detailed Technical Specification of Equipments Required for
Department of Physiotherapy**

SNo	Name of Equipment	Specification
1	Pulsed Short wave Diathermy Unit	Adjustable intensity max. output 400 W., Pulsed pick power Max. 1000 W., Conveniently merged display, Advanced inductive electrodes with faraday screen, Adjustable treatment plan induction electrode, Electrode with three side converge of extremities for homogeneous induction, induction field, All standard accessories
2	Electrotherapy / Combination Therapy with Trolley & Vacuum	Display 12" Colour touch screen display: 2 Independent Channels- Parallel – Separate- Alternate, All low & medium frequency currents with option of adding Galvanic component to other current forms better pain control, Screen shows the effect of the particular current form for e.g. Analgesia, Hypermia, Relaxation, Strengthening etc Treatment with choice of current & parameter, preset programs selection as per body area or alphabetic indication list. Special programs- Current for Sports Rehab, Currents for Muscle Rehab, Currents for Urology/ Gynaecology Paralysis diagnosis: Lange Test, Neofaradic test, Fischgold test Rheobase, Chronaxie, accommodation quotient and I/T curve plotting Paralysis treatment Ultrasound: Choice of penetration depth, Choice of Mechanical & Thermal effect
3	HI-TRAC, Lumbar-Cervical UNIT (Computerized, with bed)	<p>Micro-computer controlled unit for Intermittent/Constant, Lumber-Cum-Cervical Traction is based on solid-state circuitry three sections, Fixed Height Bed with storage cabin underneath is an integral part of the unit.</p> <p>Technical Specification: Therapy Modes: 8 Traction Modes for either Lumber or Cervical Traction, in Progressive, Regressive Intermittent and Static etc. Memory/ Programmed : 30 Treatment Patterns can be programmed & Stored in non volatile memory. (24 Programs are stored and Six programs are free). *Traction Force: Adjustable from 5 kg to 60 kg. Base Force: Adjustable from 0 kg to 54 kg. Traction Hold Time: Adjustable from 0 to 99 Sec. Base Traction Hold Time: Adjustable from 0 to 99 Sec. *Treatment Time: Continuously adjustable from 0 to 99 minutes, with acoustic signal & automatic reduction of traction force. Displays: Digital display of Traction Force, Base Force, TF Hold Time BF Hold Time, Treatment Time & Graphical Display of Trac. Mode. Accessories: Adjustable Flexion Stool, Head-Halter, Pelvic & Thoracic Belts. Couch/Bed: Fixed Height-70mm, foam padded top is divided in Three sections. Head section has an adjustable incline. Auto-Tension: The set traction force is Adjustment automatically maintained throughout operation. Patient Safety: Patient Stop, hand held switch. Power Supply 220-240V</p>
4	Whirlpool Bath With Chair for Whirlpool Bath	<p>Heavy gauge stainless steel tank sturdily fabricated and bright finished. Provides effective hydro-massage of arms, hips, legs, knees and feet. Mounted on heavy duty 10cm dia four ball bearing castors. Comes complete with removable inside aluminum Seat & Arm rest. Unit is fitted with a motorized turbine ejector and aerator on a spring loaded turbine elevator, digital thermometer, thermo state & immersion heater. Provided with drain pipe for emptying. Inside measurements of tank 90cm long x 50cm wide x 70cm deep. No plumbing required.</p> <p>Chair for Whirlpool : Used for arm and hand hydro massage. Revolving Seat is adjustable in height from 40cm to 55cm. Painted tubular steel construction, fitted with upholsteres seat and back</p>

5	Scanning Laser with hand held probe	<p>Laser protection class IV, IEC protection class I type BF, Visible Beam 632 nm, High power Diode 808 nm+ 915 nm, Effective Power 3200 mw, Emission continuous and pulse, Duty cycle 10–100 %, Frequency 10-20,000 Hz., Laser Energy 0-100 J., Rotation of scanning plan –450 / 900, Available protocols – preset and adjustable during treatment, Customized protocols – 80 files with 3 steps, 2 – Protective Goggles, 1- Main cables, 1 - operating manual, Hand Probe, Laser source – infrared diode GaAs 904 nm, Pulse width – 200 ns, Pick Power – 12 W., Frequency :5 – 10,000 Hz</p>
6	Semi-recumbent cycle	<p>Step-through design, Self-powered, selfcharging, cordless capability – use it anywhere, 10 to 600 watt work rate ,range to accommodate a wide spectrum of patient profiles, Two resistance modes:- Constant Power (effort level control) for aerobic exercise – Iso kinetic (speedcontrol) for building strength, Five pre-programmed exercise profiles, 39 effort levels, 20 speed settings, heart rate monitoring - Polar®Telemetry or contact handgrip, Easy-to-use “Quick-Start” control panel – with large buttons, Large, easy-to-view LED display, Ergonomically correct for patients from 4'6" to 6'10" tall, and weighing up to 350 lb, Removable seat for wheelchair access Additional Features Include:- Large rotating seat with seat belt, armrests and grab handles - easier wheelchair transfers belt, armrests and handles provide added security, especially for patients with balance deficiency or palsy, Adjustable pedal cranks with standard pedals SPECIFICATIONS: - Dimensions: 70" l x 23" w x 49" h(58 x 178 x 124 cm)</p> <p>Resistance: Constant Power (effort level control): 39 effort levels (5-watt increments from 10 to 100 watts, 10-watt increments from 110 to 300 watts) Isokinetic (speed control): 20 speed settings (increments of 5 deg/sec) Work Rate Range: 10 watts (25 rpm) to 600 watts (120 rpm) , Control Range: 25 to 120 deg/sec , Readouts: Time, RPM, watts, calories, METs, heart rate , Heart Rate Monitoring: Polar® Telemetry (chest strap) and contact handgrip system, Communication: FitLinxx ® compatible, CSAFE protocol for data export, Patient Capacity: 350 lb (159 kg), Weight: 160 lb (72 kg), Power: Self-powered; no external,power requirement at user work rates over 30 watts and 50 rpms; 115 VAC,adapter (230 VAC available) is provided to power system and charge, battery during applications below 30 watts and 50 rpms. Battery automatically recharges at work rates above 30 watts and 50 rpms, Certification: ETL listed ,</p>
7	Upright bike	<p>Resistance Range- 20 - 900 Watts, Modes of Operation - Constant Power, Bike Mode, Seat Adjustment- One-hand ratcheting seat height adjustment with proprietary design features a comfort groove and is shaped to conform to the user, Dimensions (l × w × h)- 48" × 22.5" × 64" (122 cm × 57 cm × 162.5 cm) Display- Graphic display of profile via 8 x 15 LED; Numeric display of time, distance, calories, calories/hour, METs, watts, RPM, and heart rate including multi-color indication of heart rate range.Lower display shows road speed and resistance level, Workouts- Quick Start, four Weight Loss, four Cardio, and Heart Rate Control; Quick Start is facility selectable as “Bike” mode or Constant Power; Weight Loss</p>

		<p>and Cardio workouts are constant power; Quick Start and Workouts have 21 levels, Heart Rate Monitoring- Contact Grips and Wireless, Connectivity- CSAFE (Fitlinxx Level 3 Pending), Max User Weight- 400 lbs (181 kg), Power- Self-powered, AC adapter for full time display, Compliance- ETL Listed to UL1647, ASTM, EN 957, CE Low Voltage Directive, FCC Class B</p>
8	Gait trainer	<p>High Resolution Color Touch-Screen LCD Display - easy to see and use, Audio and Visual Biofeedback - real-time biofeedback prompts patients into a proper gait pattern, Normative Data - for comparison to healthy Populations, Objective Documentation - printed color reports track progress and document outcomes - ideal for insurance reimbursement, Patient Data Storage - maintains records to track progress and issue reports for up to 1000 patients, Data Export – serial interface allows download of patient data to computer for archiving, reporting or export as a CSV file Footfall Data Export - a versatile research tool that can work with standard PC programs, Open Platform- offers unobstructed use with unweighing systems (extended handrail options available), Heart Rate Monitoring</p> <p>- chest strap telemetry and contact handgrip to ensure proper training intensity</p> <p>SPECIFICATIONS: Dimensions: 86" l x 27" w (218 x 69 cm) Walking Area: 64" l x 20" w (160 x 51 cm), Printer Stand: 24" l x 24" w (61 x 61 cm), Deck: 1" thick (2.5 cm) reversible, Teflon™ impregnated high density composite fiber, Motor: 2 HP with 4Q- Pulse Width, Modulation Control, Speed Range: Forward: 0-10 mph (0-16.9 km/h), Reverse: 0-3 mph (0-4.8 km/h) in 0.1 mph (.16 km/h) increments, Gait Trainer Mode: Speed limited to 3 mph (4.8 km/h), Elevation: 0-15% Grade or -3 to 12% Grade, Heart Rate Monitoring: Polar® Telemetry (chest strap) and contact handgrip, Display: Color Touch-Screen, Printer: HP DeskJet, Power: 115 VAC, 50/60 Hz, 20 AMP, dedicated line, or 230 VAC, 50/60 Hz, 20 AMP dedicated line, Includes hospital grade plug with 12' (3.7 m) power cord, Patient Capacity: 400 lb (182 kg), Weight: 310 lb (140 kg), Certification: ETL and cETL listed to UL 2601-1, CAN/CSA C22.2, No.: 601-1-M90 and EN60601-1. CE conformity to M.D.D. 93/42/EEC,</p>
9	Unweighing system	<p>FEATURES: Dynamic suspension -allows for natural vertical displacement of center of gravity, Patented off-loading, mechanism – maintains constant force; simply dial in amount to off load, Single-point suspension - permits functional pelvic rotation, Unobstructed open access - Offset design provides full access for easy patient interaction, Attachment rings – on support vest allow single or two-point pelvic stabilization when desired, Low-effort manual operation - no power cord, no weights, no air compressor Adjustable and removable patient handrails - accommodates diverse patient populations and allows for easy treadmill access, Universal Air Support Vest - fits a variety of patients, Adjustable height - can be assembled at reduced height for use in rooms with 8-foot ceilings, Adjustable suspension - accommodates children and adults,</p>

		<p>Therapist seats - provide a place to sit during assistive exercise and provides a safer environment for therapist interaction</p> <p>SPECIFICATIONS: Dimensions: 36" w x 50" depth x 106" h (91 x 127 x 270 cm) accommodates patients from pediatric up to 6'11" (210 cm) on a standard treadmill; alternate height setting for facilities with low ceilings: 93.5" h (241 cm) accommodates patients from pediatric up to 6'2" (188 cm) on a standard treadmill , Vertical Adjustment: 60" (152 cm) , Unloading Weight Capacity: 180 lb (82 kg) , Patient Capacity: 360 lb (163 kg) , Power: 9V Battery , Certification: ETL and cETL listed to UL 2601-1, CAN/CSA C22.2 No.: 601-1-M90 and EN60601-1. CE conformity to M.D.D. 93/42/EEC ,</p>
10	Hand Evaluation Set	<p>Hand Evaluation Set 7 piece-Hydraulic Hand dynamo meter, pinch gauge, stainless steel fingers goniometer. 2-point discriminator with 3rd point, warten burg pinwheel, finger circumference gauge, and functional finger motion gauge.</p>
11	Algometer	<p>To evaluate pain threshold, Probe should be around 1.5 cm2 with different level of pain threshold/pressure</p>
12	Electro Goniometer	<p>Dual biaxial electro goniometer instrument designed for measurement of joint angle during movement.</p>
13	Universal Inclinometer	<p>Measures range-of-motion of any body part. Set the moveable dial so that the weighted indicator points to zero move joint through its range and read dial. Goniometer w/clip and Goniometer w/headband, International standard</p>
14	Bubble inclinometer	<p>Inclinometer standards codified in the AMA guide to the evaluation of permanent impairment to be measured: turn dial until scale reads 0: take joint through its range: read range traveled directly from dial, bubble inclinometer. International standard</p>
15	Pneumatic compression therapy system	<p>Working pressure range : 20 ~ 200mmHg, Time range (Digital type) : 0 ~ 89minutes , Display : Graphic LCD Compression modes : 4 modes , Massage compression mode, Squeezing compression mode, Whole compression mode etc .Hold time range: 0 ~ 6 seconds, Interval time range: 0 ~ 19second 6 chamber-digital pressure gauge, 3 operating modes., 1 Arm cuff and 1 leg cuff standard, pressure range 25 to 200 mm Hg, time range 0 to 99 mins, pressing speed 0.8 RPM to 3 RPM, Pressure air sensor : Built in Speed control range: 1 level ~ 5 level, IEC standard : International standard , Protection class : International standard</p>
16	Synthetics Bones & Skeleton set	<p>Artificial skeletal system assembled. Synthetic skeletal system spinal column bones, upper limb bones, lower limb, Synthetic Joints models shoulder, elbow, wrist and hand, hip, knee and ankle joints</p>
17	Cryotherapy Unit	<p>(-)30 °C Cold Air Cryo-therapy for Pain and Inflammatory Treatment</p> <p>The room air is sucked into the unit, filtered and cooled down to -30°C, Only 2 or 3 minutes treatment to reach 30 to 45 minutes analgesia. The cold air is 100% dry to be more effective and comfortable. Varied nozzles sizes from 5, 10, 15, 20 mm diameter. Air flow adjustable up to 1000 Lt/min</p>
18	Mannumed Special	<p>Fully equipped for cervical and lumbar traction, rollable surface prevents friction to hip and legs during treatment, Free roll able</p>

	Traction Couch	table top section (that can be fixed when required), Fixation rails for belts and straps, Sitting and lying positions, Height adjustment (hydraulic or electric), Easy to move with retractable castors, Full and simple gas-spring supported adjustment of the head- or back-section, Comfortable padding, also at the side of the table top-Durable, hygienic and washable upholstery, Technical Specifications-Size tabletop (lxw): 203 x 67 cm for type 916 en 926,Size tabletop (lxw): 195 x 67 cm for type 004 ,Height adjustment: 45-95 cm for type 916 en 926,Fixed height: 83 cm for type 004, Lifting time (min.-max.): approximately 25 sec., Lifting capacity: 150 kg, Force hydraulic pump: 10.000 N, force electrical motor: 6.000 N,Power supply: 100/120/230V AC 50/60 Hz ,Current consumption: 1.0 A max.
19	Mobile Stimulator with multiple currents	2 channels for stimulation output independent intensity and parameter controls for each channel, multiple wave form on board, two pole IFC, 4 pole IFC, high voltage pulsed galvanic current (HVPGC), Micro currents, Russian, Trabert, Monophasic triangular , monophasic rectangular, diadynamic, VMS & TENS, user defined memory positions.
20	Shortwave Diathermy Unit	Frequency 27.12 MHz, output maximum 500 watts, intensity adjustable in 5 steps, tuning manual with control knob, 30 minutes timer with auto cut, cooling with 10 cm dia. Instrumental fan, one pair of condenser pads with felt spacer and cover. Accessories : one pair condenser pad cables, one power main cable, one shortwave test tube, Velcro straps, spare fuses.
21	Ultrasonic Therapy Unit	Dual frequency, 1 MHz & 3 MHz, Dual head, output mode pulse and continues, Digital output display. Treatment timer 1 to 60 minutes.
22	Diagnostic Muscle Stimulator	Faradic & Galvanic current output. Interrupted Galvanic, pulse duration - 0.01, 0.03, 0.1, 0.3, 1,3,10,30,100,300 m sec. Frequency 6,18,30 /min. 1,3,5,10,30,50, 100/sc. Surged faradic pulse of 0.6 m second duration. Faradic comprises of 80 pulse per sec. each pulse of 0.6 ms width. 2 pairs of Inactive and active electrodes, Ball tip electrode with handle, two pairs of electrode wires.
23	Paraffin Wax bath Unit	Dimensions- (18" X 14" X 10".. Salient Features : paraffin wax bath with paraffin wax-10 kg, tank is made of heavy stainless steel used and is mounted on ball bearing rubber castors, for easy mobility. Works in electricity 220 - 230 volts and fitted with two special tanks is impression type heaters. Thermostatically controlled comes complete with three core wire pin plug
24	Multi Gym Exercise Apparatus	Multi stations for all upper & lower extremity strength training program, weight attachments and additional features like bench press, chest press, pull ups, abdominal & back exercises etc.
25	Quadriceps Table	One pair chromated torque unit with different weight options - two sets of ½ kg, 1 kg, 2 kg, 3 kg weights. Well cushioned back support and seat
26	Finger Gripping Exerciser	Made with metallic frame and base, table top mounted.
27	Exercise Table/Therapy Couch	Made by teak wooden frame and leg size L x W x H – 200 cm x 70 cm x 80 cm, Top 19 mm thickness ply, 4 inch cushioned with rexin cover legs cross section 8 x 10 cm.
28	Exercise Mats	L x W – 6 ft. x 1.5 ft. with rexin cover
29	Hand Splinting Kit	Cock up splint knuckle binder splint short and long opponence splint, carpal tunnel splint
30	Medicine Ball	1 set of 2,3,4, kg

	Set	
31	Standing Frame	Wooden with knee support, adequate straps, arm rest, inside well padded and adjustable height
32	Transfer Boards	Length 4 ft. width 1 ft, thickness 1 inch, Made by teak wood bearing weight capacity around 100 kg.
33	CP Chairs	3 (Small, medium and large sizes) well padded, SS frame, wooden top, Adductor wedge.
34	ADL Board (Functional)	Wall mountable, base made of wood, skeleton made by SS Fittings- house hold utilities including tap, bolts, switches etc.
35	Peg boards and games	Wooden made, colour full pieces of square rectangular, hexagon, cylindrical etc.
36	Combination of Microwave Diathermy + Computerized Traction With Couch	<p>Both Microwave Diathermy with Computerized Traction should be attachable to a single couch so that both the Therapies can be given to a patient simultaneously with cumulative benefits with following specifications:</p> <p>SPECIFICATION OF MICROWAVE DIATHERMY Pulsed Microwave Diathermy should be of the latest modern technology. Linear output without High Frequency Cables. Without separate radiators/emitters. Microwave Radiated through a brass Wave Guide with three slits, i.e. Seven Radiator output possibility. Operating Frequency: 2,450 MHz. Mains Voltage 230 V +/- 10 %, 50 Hz. Pulse output – 1500 W peak, Maximum Average Output 250 watts. It should give IMPULSE OUTPUT, Mobil Movement Range Setting for Microwave Diathermy under the couch.</p> <p>SPECIFICATION OF COMPUTERISED TRACTION: Traction Unit should be computerized. Perform Static Force, Intermittent Force, Pulsation Force and Combination of Static, Intermittent, Pulsation Forces. The unit can give any conceivable type of Traction, should perform Lumber Traction and Cervical Traction Belts, Straps and Flexion Stool for Lumber and Cervical Traction. With more than 50 programs for Extension and one variable free programs.</p> <p>Provision of Safety Switch controllable by patient. Maximum Lumber Force - 60 Kg. Maximum Cervical Force - 12 Kg.</p> <p>Optional : Belts, Straps and Adopters for Hip Joint traction, hand traction, foot traction. Thoracic traction</p> <p>COUCH : Couch Frame should be of rugged metal frame with padding material. Couch should be such that both the Computerized Traction and Microwave Unit is attachable to the same Couch Having sections having a free rolling section to avoid any frictional errors of force</p>
37	BALANCE System	Sensbalance MiniBoard or Sensa Cushion with Measure, Exercise and Game Software. Collect data regarding your balance & core stability training and visualize progression in time. An effective clinimetric tool for mapping and following several aspects of balance behavior ; Range of Motion, Limits of Stability, Proprioception, Reaction Time
38	Continuous Passive Motion (CPM) Unit	<p>Angles: Extension:0 – 70 degrees, Flexion:10 – 120 degrees, Treatment Time:0 – 99 minutes, Rest Time :1 – 5 seconds. Computerized lower limb CPM useful to treat joint of the lower limb, after an injury.</p> <p>Digital control of flexion and extension angle, Angle indicator in knee position,Smooth and silent function, Speed Control, Height adjustment controls, Patient safety switch</p> <p>OTHER SPECIFICATIONS:OPERATING Voltage:220V AC/50 HZ, POWER CONSUMPTION:50 WATTS, L x B x H :102 x 27.5 x 9 cms., Weight:15 Kgs</p>

Schedule-5:

Technical Specification for Casualty
List & Detailed Technical Specification of Equipments Required for
CASUALTY

S N o	Name of equipment	SPECIFICATION		
	Suction machine Electrically Operated	Under process of RC finalization hence deleted		
	Suction machine Foot Operated	Under process of RC finalization hence deleted		
1	Shadow less Lights	<p>Ceiling track model Size : 45 cms Double dome shadow less ceiling OT :</p> <ul style="list-style-type: none"> • Shadow less operating lamp LED double dome • Ceiling LED operating light double lamphead should have more than 70 LED in major lamp head and more than 50 in satellite lamphead should offer excellent luminous efficiency light source and incredibly long life LED • LED Operating light should have overlapping fields of light and multiple patterns • Minimize shadow and redirect the light to the operating area • Lamphead should be of modular design with five and three segment for optimized laminar flow compatability • Lamphead should be plastic moulded and should be slick for easy manoeuvrability • Feather touch control should be on the lamphead to offer different level of light intensity. • Feather touch control should be on the lamphead to offer different level of temperature • Sterilize handle should be provided in the centre lamphead for positioning and focusing • Major lamphead intensity 150000 lux and minor 90000 lux • Life of LED more than 35000 hrs. <p>FEATURES :</p> <ul style="list-style-type: none"> • Aerodynamic lamphead hammered out of cad • Advanced filter technology • Special diffuser • Feather touch digital control for various level of light intensity • Unique sterilizable handle for focusing • Low voltage supply unit <p>TECHNICAL SPECIFICATION</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 50%; text-align: center;">Lamphead</td> <td style="width: 50%; text-align: center;">700 mm dia 1</td> </tr> </table>	Lamphead	700 mm dia 1
Lamphead	700 mm dia 1			

		bulb	
		Light intensity	150000 Lux
		Power requirement	150 W
		Color temperature	4250 K
		Average life for LED	35000 hours
		SATELLITE LIGHT HEAD	
		Power requirement	90000 Lux
		Color temperature	150 W
		Average life for halogen bulb	35000 hours
2	Defibrillator with monitor	<p>Specification for Defibrillator with Monitor</p> <p>The machine should have facility for ECG monitoring. Defibrillation, external pacing & recorder.</p> <p>The defibrillator should be biphasic technology based having energy selection of 1-200 Jolules preferably based on rectilinear biphasic waveform.</p> <p>It must be capable of monitoring ECG though ECG cables, Multi-function electrodes and paddles.</p> <p>The monitor must be a 2-channel monitor with ECG as the first trace and an option of choosing EtCO₂ and SpO₂ as the second trace.</p> <p>The machine should be able to defibrillate adult , paediatric patients.</p> <p>The machine should have ECG waveform display on bright screen alongwith other vital numeric information.</p> <p>The machine should compact , portable with built in rechargeable battery, weight of the total machine should not be more than 6 kg.</p> <p>The machine should have inbuilt recorder for printing ECG trace & stored information.</p> <p>The machine should have capability for providing internal defibrillation shocks.</p> <p>The machine should be upgradable to vital sign parameter such as NIBP, Mainstream EtCO₂, Masimo SET SpO₂ & 12 Lead ECG.</p> <p>The machine should have user selectable alarm settings.</p> <p>The machine should work on mains as well as rechargeable battery.</p> <p style="text-align: center;">It should have PCMCIA Data card for patient data storage.</p>	
	<p>Boyles apparatus</p> <p>vi) Circle absorber</p> <p>vii) Cylinders</p> <p>viii) Breathing systems</p> <p>ix) Bains circuit</p> <p>x) Vaporizer</p> <p>B.p. apparatus</p>	Under RC hence deleted	
3	Ecg machine	<p>LEAD SELECTION</p> <p>Leads 12-lead selection</p> <p>Selector positions : I, II, III, aVR, aVL, aVI, V, ImV</p>	

	<p>FREQUENCY RESPONSE Frequency response : 0.05Hz to 100Hz (-3dB)</p> <p>PATIENT SAFETY Isolation Floating input isolation Patient leakage current : Less than 10 UA (220V/50Hz)</p> <p>SENSITIVITY Sensitivity :5mm/mV,10 mm/mV, 20 mm/mV push button selectable Auxiliary input : 10 mm deflection for 30 mmV input Scope Output : Output voltage 500m V at I m V input voltage gain I Calibration : I m V push Button, effective at input amplifier CMRR:Better Than 10 dB</p>
ICU bed	Under process of RC finalization hence deleted

Section – VIII

Bidder Information Form

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

Tender Reference No.:

Date of opening :

Time :

Name and address of the Bidder:

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

01 Name of the manufacturer

- a. Name of authorised signatory
- b. full postal address
- c. full address of the manufacturing premises
- d. telegraphic address
- e. telephone number
- f. E-mail & fax number

02 **Expertise of Organization:**

- Organization structure (e.g. service provider, wholesaler, trader, manufacturer)
- Years of company experience
- Areas of expertise of organization
- Current Licenses if any, and Permits (with dates, numbers and expiration dates)
- Health Authority Registration Information
- Production Capacity

03 Plant and machinery details

03 Manufacturing process details

04 Monthly (single shift) production capacity of goods quoted for

- a. normal
- b. maximum

05 Total annual turn-over (value in Rupees)

06 Quality control arrangement details

- a. for incoming materials and bought-out components
- b. for process control
- c. for final product evaluation

07 Quality Management System

08 Test certificate held

- a International Quality Management System (QMS)
- b type test
- c BIS/ISO certification
- d Compliance to US FDA 21 CFR
- e Compliance to IEC60601

08 Details of staff

- a. technical
- b. skilled
- c. unskilled

09. **Financial data of the organization**

- Audited financial statement for the last three years
- Bank name and address

10. **Client Reference List:**

- Please provide references such as customer details, tel. nos. etc.

Name of client/customer:	Name/model of equipment supplied	Qty. installed	Contact person name, telephone and e-mail Id.
1.			
2.			
3.			

11. **Contact details of persons Government Medical College may contact for requests for clarification during bid evaluation:**

- Name/Surname: Dr Vinay Dubey CGM Technical MPPHSCL
- Tel Number (direct):Landline and Mobile no.94250441104
- Email address (direct):

(Enclosed earlier in this tender)

PS: This person must be available during the next two weeks following receipt of bid

Signature and seal of the Bidder

Section – IX

Qualification Criteria

- a. The Bidder should be (i) a Manufacturer in India or (ii) Indian subsidiary of foreign manufacturer or (iii) Importer of foreign manufacturer

 - b. The Bidder should meet the following criteria:
 - i. It should have service support facilities in India with qualified and trained engineers / technicians, spare parts, testing & calibration equipment etc. for providing installation, after-sales support during warranty/ CMC period.
 - ii. In case, bidder is an Indian Manufacturer or Indian Subsidiary of foreign manufacturer, it should have supplied and installed in last three years from the date of tender opening, at least 100% similar equipment meeting major parameters of technical specifications, anywhere in India and which is functioning satisfactory.
 - iii. In case, bidder is an authorized importer of a foreign manufacturer, it should have supplied and installed **at least 50% tendered quantity of quoted model** in last three years from the date of tender opening, anywhere in India of the same manufacturer and which is functioning satisfactory.
1. In support of b.(i), the Bidder shall furnish details of service support facilities in india, including addresses of such service support facilities, brief profile of engineers / technicians, list of spare parts, testing & calibration equipment etc. currently available.
 2. In support of b.(ii) and (iii), the Bidder shall furnish Performance statement in the enclosed Proforma 'A', which shall include Satisfactory Performance Certificate issued by respective Purchasers / users of such equipments in respect of supplies made.
 3. The Bidder 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 Bidder shall also furnish details of Equipment and Quality Control in the enclosed Section VIII.
 4. Notwithstanding anything stated above, the Tender Inviting Authority reserves the right to assess the Bidder'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 Tender Inviting Authority.
 5. The Tender Inviting Authority reserves the right to ask for a free demonstration of the quoted equipment at a pre determined place acceptable to the Tender Inviting Authority for technical acceptability as per the tender specifications, before the opening of the Price Tender.

PROFORMA 'A'
PROFORMA FOR PERFORMANCE STATEMENT

(For the period of last three years)

Tender Reference No. : _____

Date of opening : _____

Time : _____

Name and address of the Bidder : _____

Name and address of the manufacturer : _____

Order placed by (full address, tel.& e-mail of Tender Inviting Authority/Ordering Authority)	Order number and date	Description and quantity of ordered goods and services	Order Quantity	Make / Model	Value of order (Rs.) to be indicated (Last 3 years)	Date of completion of Contract		Remarks indicating reasons for delay if any	Have the goods been functioning Satisfactorily (attach documentary proof)**
						As per contract	Actual		
1	2	3	4	5	6	7	8	9	10

Note: All columns must be filled as this would be seen during evaluation

Signature and seal of the Bidder

**The documentary proof will be a certificate (as detailed in the format) from the consignee/end user with cross-reference of order no. and date in the certificate along with a notarized certification authenticating the correctness of the information furnished. If at any time, information furnished is proved to be false or incorrect, the earnest money furnished will be forfeited

- a. For supplies made to public sector units in India, an affidavit that the performance statement given is correct
- b. However in case of supplies to private sector units, an affidavit confirming that the performance statement is correct along with
 - i. Copy of Purchase orders
 - ii. Copy of Invoices
 - iii. Proof of payment received from Purchasers
 - iv. Documentary evidence (Client certificate) in support of satisfactory completion of orders.

Section – X TENDER FORM

Date _____

To,
Managing Director,
Madhya Pradesh Public Health Services Corporation Limited
1st Floor OILFED BUILDING, ARERA HILLS
Bhopal – 462 011 Madhya Pradesh
Ref. Your Tender Ref. 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 goods as per table below and in conformity with your above referred document for the amount as mentioned in our price bid which has been submitted online:

Schedule No.	Brief Description of Goods and Make & Model	Country of Origin	Quantity (Nos.)

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 and also accepts all conditions of the tender document.

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

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

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

We confirm that we do not stand deregistered/banned/blacklisted by any Govt. Authorities.
We confirm that we fully agree to the terms and conditions specified in above mentioned TE document, including amendment/ corrigendum if any

Signature with date

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

SECTION – XI (A) PRICE SCHEDULE (to be filled on line only)
PRICE SCHEDULE FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN LOCATED WITHIN INDIA

1	2	3	4	5							6
Schedule	Brief Description of Goods	Country of Origin	Quantity (Nos.)	Price per unit (Rs.)							Total Price (at Consignee Site) basis (Rs.) 4 x 5(g)
				Ex - factory/ Ex - warehouse /Ex-showroom /Off - the shelf (a)	Excise Duty (if any) [%age & value] (b)	Sales Tax/ VAT(if any) [%age & value] (c)	Packing and Forwarding charges (d)	Inland Transportation, Insurance for a period including 3 months beyond date of delivery, loading/ unloading and Incidental costs till consignee's site (e)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site (f)	Unit Price (at Consignee Site) basis (g) =a+b+c+d+e+f	

Total Tender price in Rupees: _____

In words: _____

Note: -

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

Name _____

Business Address _____

Place: _____

Signature of Bidder _____

Date: _____

Seal of the Bidder _____

SECTION – XI (B) PRICE SCHEDULE
PRICE SCHEDULE FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT (CMC) AFTER WARRANTY PERIOD (To be filled online only)

1	2	3	4			5	6
Schedule	Brief Description of Goods	Quantity (Nos.)	Annual Comprehensive Maintenance Contract Cost for each year after completion of warranty period (inclusive of all taxes)			Total Annual Comprehensive Maintenance Contract Cost for each unit for three years	Annual Comprehensive Maintenance Contract Cost for total units for three years (3 x 5)
			Year-1	Year-2	Year-3	(a)+(b)+(c)	
			(a)	(b)	(c)		

Place: _____

Date: _____

Name _____

Business Address _____

Signature of Bidder _____

Seal of the Bidder _____

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Section – XII
MANUFACTURER’S AUTHORISATION FORM

To,
Managing Director
Madhya Pradesh Public Health Services Corporation Limited
1st Floor, OILFED BUIDLING, ARERA HILLS
Bhopal – 462 011 Madhya Pradesh

Dear Sirs,

Ref. Your TE document No _____, dated _____
We, _____ who are proven and reputable manufacturers
of _____ (*name and description of the goods offered in the tender*) having
factories at _____, hereby authorise
Messrs _____ (*name and address of the agent*) to submit a tender,
process the same further and enter into a contract with you against your requirement as contained in
the above referred TE documents for the above goods manufactured by us.

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

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

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

We also hereby confirm that we would be responsible for the satisfactory execution of contract placed
on the authorized dealer / distributor.

We also confirm that the price quoted by our dealer / distributor shall not exceed the price which we
would have quoted directly.

Yours faithfully,

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

[Name & address of the manufacturers]

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

SECTION – XIII
BANK GUARANTEE FORM FOR EMD

Whereas _____ (hereinafter called the “Bidder”) has submitted its quotation dated _____ for the supply of _____ (hereinafter called the “tender”) against the Tender Inviting Authority’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 “Tender Inviting Authority) in the sum of _____ for which payment will and truly to be made to the said Tender Inviting Authority, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of _____ 20____. The conditions of this obligation are:

- (1) If the Bidder withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- (2) If the Bidder having been notified of the acceptance of his tender by the Tender Inviting Authority 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 Tender Inviting Authority up to the above amount upon receipt of its first written demand, without the Tender Inviting Authority having to substantiate its demand, provided that in its demand the Tender Inviting Authority 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 180 days after due date of opening of techno-commercial bids 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 – XIV

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY

To

Managing Director,
Madhya Pradesh Pubic Health Services Corporation Limited
1st Floor,MP OILFED BUILDING , Arera Hills,
Bhopal – 462 011 Madhya Pradesh

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 _____ 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 – XV
CONTRACT FORM - A**

**CONTRACT FORM FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING
INCLUDING WARRANTY SERVICES OF GOODS**

Contract No: _____

dated: _____

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

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

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

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

5. Some terms, conditions, stipulations etc. out of the above-referred documents are reproduced below for ready reference:
 - (i) Brief particulars of the goods and services which shall be supplied/ provided by the supplier are as under:

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

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

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

2. Delivery schedule
- (iii) Details of Performance Security
- (iv) Quality Control

- (a) Mode(s), stage(s) and place(s) of conducting inspections and tests.
- (b) Designation and address of Tender Inviting Authority's inspecting officer
- (v) Destination and despatch instructions
- (vi) Consignee, including port consignee, if any
 - 3. Warranty clause
 - 4. Payment terms
 - 5. Paying authority

**(Signature, name and address
of the Tender Inviting Authority's authorised official)
For and on behalf of** _____

Received and accepted this contract

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

For and on behalf of _____

(Name and address of the supplier)

(Seal of the supplier)

Date: _____

Place: _____

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

Annual CM Contract No. _____ dated _____
 Between _____

 (Address of Head of Hospital/Institute/Medical College)
 And _____

 (Name & Address of the Supplier)

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

- a) In continuation to the above referred contract, the Contract of Annual Comprehensive Maintenance is hereby concluded as under: -

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

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

- b) The CMC commence from the date of expiry of all obligations under Warranty i.e. from _____ (date of expiry of Warranty) and will expire on _____ (date of expiry of CMC)
- c) The cost of Annual Comprehensive Maintenance Contract (CMC) which includes preventive maintenance, labour and spares, after satisfactory completion of Warranty period may be quoted for next 7 years as contained in the above referred contract on yearly basis for complete equipment.
- d) There will be 96% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with financial penalty and to extend CMC period by double the downtime period.
- e) During CMC period, the supplier shall visit at each consignee's site for preventive maintenance including testing and calibration as per the manufacturer's service/ technical/ operational manual. The supplier shall visit each consignee site as recommended in the manufacturer's manual, but at least once in 4 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.
- f) All software updates should be provided free of cost during CMC.
- g) The bank guarantee valid till _____ [(fill the date) 2 months after expiry of entire CMC period] for an amount of Rs. _____ [(fill amount) equivalent to 2.5 % of the cost of equipment as per contract] shall be furnished in the prescribed format given in Section XV of the TE document, along with the signed copy of Annual CMC within a period of 21

(twenty one) days of issue of Annual CMC failing which the proceeds of Performance Security shall be payable to the Tender Inviting Authority/Ordering Authority.

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

(Signature, name and address
of Tender Inviting Authority's authorised official)
For and on behalf of _____

Received and accepted this contract

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

For and on behalf of _____

(Name and address of the supplier)

(Seal of the supplier)

Date: _____

Place: _____

SECTION – XVI
CONSIGNEE RECEIPT CERTIFICATE

(To be given by consignee’s authorized representative or by duly authorised person of Ordering Authority/TIA)

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

- 1) Contract No. & date : _____
- 2) Supplier’s Name : _____
- 3) Consignee’s Name & Address with telephone No. & Fax No. : _____
- 4) Name of the item supplied : _____
- 5) Quantity Supplied : _____
- 6) Date of Receipt by the Consignee : _____
- 7) Name and designation of Authorized Representative of Consignee : _____
- 8) Signature of Authorized Representative of Consignee with date : _____
- 9) 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.

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

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

c. 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
---------	---------------------	----------	------------------------

- a. The proving test has been done to our entire satisfaction and operators have been trained to operate the equipment(s)/plant(s).
- b. The supplier has successfully demonstrated the working of the equipment.
- c. The supplier has provided training to the operating staff
- d. The supplier has also provided Standard operating Procedure for operational guidelines, precautions, limitations including preliminary maintenance instructions

e. The supplier has fulfilled its contractual obligations satisfactorily ##

OR

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

- a. He has not adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specifications'.
- b. He has not supervised the commissioning of the equipment(s)/plant(s) in time, i.e. within the period specified in the contract from date of intimation by the Tender Inviting Authority/Ordering Authority in respect of the installation of the equipment(s)/plant(s).
- c. The supplier, as specified in the contract, has not done training of personnel.

Signature

Name

Designation with stamp

Explanatory notes for filling up the certificate:

- a. He has adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specification'.**
- b. 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 Tender Inviting Authority/Ordering Authority in respect of the installation of the equipment(s)/plant(s).**
- c. Training of personnel has been done by the supplier as specified in the contract**
- d. In the event of documents/drawings having not been supplied or installation and commissioning of the equipment(s)/plant(s) having been delayed on account of the supplier, the extent of delay should always be mentioned in clear terms.**

SECTION – XVIII
CHECK LIST FOR THE BIDDERS

Name of Bidder:

Name of Manufacturer/Indian Subsidiary/Direct Importer –As applicable:

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 schedule(s)?			
b.	EMD furnished in the form of Bank Guarantee, has it been furnished as per Section XIII?			
c.	Bank Guarantee furnished is validity for up to 180 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 X?			
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?			
c.	Have you uploaded quoted equipment catalogue/brochure indicating equipment's technical specifications?			
4. a.	Have you submitted satisfactory performance certificate as per the Proforma for performance statement in Sec. IX of Tender Document with last three year details in respect of all orders?			

SI No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks
b.	Have you submitted copy of the order(s) and end user certificate?			
6.	Have you kept validity of 120 days from the Techno Commercial Tender Opening date as per the TE document?			
7.	Have you furnished Income Tax Account No. as allotted by the Income Tax Department of Government of India?			
8.	Have you intimated the name and full address of your Banker (s) along with your Account Number			
9.	Have you fully accepted payment terms as per TE document?			
10.	Have you fully accepted delivery period as per TE document?			
11.	Have you accepted conditions stipulated in GCC Clause 15?			
12.	Have you submitted the certificate of incorporation?			
13.	Have you accepted the warranty and CMC 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 Tender Documents?			
16.	Have you furnished Annual Report (Balance Sheet and Profit & Loss Account) for last three years prior to the date of Tender opening?			
17.	Have you submitted Bidder Information Form details along with turnover and production capacity of manufacturer?			

SI No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks
18	Have you provided standard specifications of all consumables in sufficient details to run the machine as per clause GCC 12.1 (a)?			

N.B.

1. All pages of the Tender should be page numbered and indexed.
2. The Bidder may go through the checklist and ensure that all the documents/confirmations listed above are enclosed in the tender and no column is left blank. If any column is not applicable, it may be filled up as NA.
2. It is the responsibility of tendered to go through the TE document to ensure furnishing all required documents in addition to above, if any.

(Signature with date)

(Full name, designation & address of the person duly authorised sign on behalf of the Bidder)

For and on behalf of

(Name, address and stamp of the tendering firm)

MPPHSCL

1, Arera hills, behind Tilhan sangh building, Bhopal, 462011

To
Managing Director,
MPPHSCL
Bhopal,
Madhya Pradesh

Subject: Fall Clause

Dear Sir,

We, _____ . Hereby undertake that in current financial year we have not supplied/is not supplying same product at a price lower than that offered in the present quotation to any other Departments under Government of India/States and if it is found at any stage that same product was supplied by us to any other Departments under Government of India/States at a lower price, then that very price will be applicable to the present case and the difference in the cost would be refunded by us to the buyer, if the contract has already been concluded.

Thanking you,

Yours Sincerely,

MPPHSCL
1,Arera hills, behind Tilhan sangh building, Bhopal, 462011
Format for Installation cum receipt

No: _____ <Place>, Dated _____

To

1. Ordering authority name.....

Sub: Installation of equipment:.....

Purchase order No/date:

Your invoice no/Date:

Dear Sir,

The equipment mentioned below is installed successfully, equipment is working properly. Operational training provided to end user.

Sr No	Name of Equipment	Serial No	Model No	Date of installation

Name & signature of end user/Department Incharge:-

(Name, Signature & seal
of Head of institution)

(Name & signature of
service engineer)

This is to certify that the equipment has been supplied and installed in good condition and all accessories and spare parts along with the equipment have been handed over to stores vide stores stock register ledger folio no.... dated.....

The instrument along with log book has been successfully installed. In case of any complaint 24*7 kindly contact on phone no..... to our service center.

Signature, seal & complete add. With phone of the Ordering authority

Copy to:

No:

1. CDAC cell at MPPHSCL for entry in EMMS
2. Stores for records
3. Accounts for payments
4. MPPHSCL for master record

(Name, Signature & seal
of Head of institution)

(Name & signature of
service engineer)

MPPHSCL

1, Arera hills, behind Tilhan sangh building, Bhopal, 462011

Cost of Reagents-(To be Filled by bidder for items where Reagents are required and submitted in closed Envelop super- scribing “Tender Ref. No.- quote for Cost of Reagents for: 1) Item-.....2) Item-..... 3) Item-.....”

Bidders are also required to quote for cost of reagents. The evaluation shall be carried out considering 15000 tests per machine for 3 years including everyday start up and shut down each (total 1100 start up and shutdown in 3 years). The quotation as above, should be submitted in sealed envelope containing dully filled format as given below and super-scribed it with “Tender Ref. No.- quote for Cost of Reagents for: 1) Item-.....2) Item-..... 3) Item-.....” to the Tender Inviting Authority up to the scheduled date and time for submission of physical EMD and Technical Bid.

It is clarified that no. of tests mentioned above including start-ups and shut downs each is only indicative and shall be used for the purpose of evaluating net cost of machine. The actual purchase of reagents by respective ordering authorities may vary as per their actual requirement.

Price Schedule for Cost of reagents and start-ups and shutdowns for use with 1) Item-.....2) Item-..... 3) Item-.....

1) Item-

Description	Price/Test(Rs)incl. one startup & one shutdown daily	Sales / VAT payable if contract awarded is	Sales Tax/VAT in Percentage	Total cost of 5000 tests (inclusive of Sales Tax/Vat)
Year 1 cost of 5000 tests				
Year 2 cost of 5000 tests				
Year 3 cost of 5000 tests				
		GRAND TOTAL	(in Rs)	

Cost of reagents to perform 5000 tests in 3 years including 1100 start ups and shut down each.

Note: Above cost shall be added to the machine cost which is to be submitted online and total bid price shall be evaluated to arrive at L-1 price.