

TERMS, CONDITIONS & SPECIFICATION FOR
Supply of Medical Consumables/Surgical Sutures/ Equipment/ Instrument/ Furniture/
Laboratory Re-Agents/BCL Items for different schemes under NHM PIP and State
Budget of Balangir district

Name of the District / Health Institution: CDM& PHO, BALANGIR
 (HEALTH & F.W. DEPTT., GOVT. OF ODISHA)

Bid Reference – CDM&PHO BALANGIR/002/2019-20

Date of availability of bid document in website:	From Date	<u>22.01.2020</u>
Pre bid conference	:	<u>29.01.2020</u>
Last date of availability of bid documents (In website)	:	<u>12.02.2020</u>
Last date & time of receipt of bid documents	:	<u>12.02.2020</u> 4.00 PM
Date & time of opening of cover-A (Technical Bid)	:	<u>13.02.2020</u> 11.30 AM
Date of opening of cover-b (Price Bid)	:	will be intimated Letter
Place of opening of bid documents and Address for communication and Receipt of bid documents	:	Conference Hall, NHM, DHH O/o- CDM & PHO, Balangir Dist: BALANGIR, Pin-767001


 CDM & PHO-Cum-DMD
 Balangir

SALE OF TENDER/BID DOCUMENT

The Bidders have to download the Tender Documents directly from the Website available at www.balangir.nic.in. The Tender cost fee of Rs.5000/- (Rupees Five Thousand only) Non-refundable by way of separate Demand Draft drawn in favour of CDM & PHO, Balangir payable at Balangir should be enclosed along-with the Technical Bid (Cover-A). The Bidders should specifically super scribe, "Supply of Medical Consumables/Surgical Sutures/ Equipment/ Instrument/ Furniture/ Laboratory Re-Agents/BCL Items for different schemes under NHM PIP and State Budget of Balangir district" on the top left corner of the outer envelope containing Technical Bid (Cover-A) and Price Bid (Cover-B) separately. The Technical Bid (Cover-A) & Financial Bid (Cover-B) should be enclosed by an outer Cover. The Tender cost fee and the EMD amount should be submitted separately in shape of demand drafts in the technical bid. In case of any bid amendment and clarification, responsibility lies with the bidders to collect the same from the website or DPMU, NHM, O/o-CDM & PHO, Balangir before last date of submission of tender document and the CDM & PHO, Balangir shall have no responsibility for any delay / omission on part of the bidder.

Tender Paper Cost:

Rs.5000/-
(Non-refundable)

***** The tender paper will be rejected if the bidder changes any clause or Annexure of the bid document downloaded from the website *****


CDM & PHO-Cum-DMD
Balangir

IMPORTANT INSTRUCTIONS TO BE NOTED CAREFULLY BY THE TENDERERS

1.	Mode of Procurement	Through Open Tender
2.	Purchaser	CDM & PHO, BALANGIR
3.	Consignee	Central Store, District Head Quarter Hospital, Balangir
4.	Delivery Period	Within 60 days from issue of Purchase Order.
5.	Mode of Delivery	By Air / Road / Rail
6.	EMD	Rs. 50,000/- (Rupees Fifty Thousand) only per tender. The Earnest Money Deposit should be in the shape of demand Draft/Banker's Cheque only in favour of <u>CDM & PHO, BALANGIR</u> drawn in any Nationalized / Scheduled Bank payable at BALANGIR. EMD exemption is not permitted except to local SSF units registered in Odisha only. The certificate of EMD exemption to be produced.
7.	Performance Security.	The supplier has to submit Performance Security @5% in shape of DD/Bank Guarantee of the Order Value within 15days of issue of supply order. The performance Security is to be refunded after completion of the validity period of the Tender or 1year from the supply of such items whichever is earlier without any Interest. The performance security will be forfeited in the following cases:- i. Any violation of the terms & conditions of Tender. ii. Blacklisting of the Agency/Supplier
8.	Production of Samples	The bidders who will qualify in the Technical bid will have to submit to the undersigned the samples of the items (Medical Consumables, Surgical & Sutures, Medical Instruments and BCL Items) within 7 days after opening of Technical bid. The Financial bid will be opened of those bidders who have submitted the samples of the items as mentioned above.


CDM & PHO-Cum-DMD
Balangir

(5)

OFFICE OF THE CHIEF DISTRICT MEDICAL AND PUBLIC HEALTH OFFICER:
BALANGIR

Letter No. 302 /NHM/BALANGIR

Dated...20.01.2020

TENDER NOTICE

Sealed Tenders in prescribed format are invited from the Manufacturers/ Importer /Authorized Distributors for supply of Medical Consumables, Surgical Sutures, Laboratory Reagents, Laboratory Consumables, Instruments&Equipments, Hospital Furniture, BCLs for BALANGIR District.

The Bidders should submit two separate sealed packets i.e. one for Technical Bid (Cover-A) and another for Financial Bid (Cover-B) to be superscribed on the cover of the packets separately and to be kept in a single cover which should be superscribed as "Tender for Medical Consumables, Instrument's & Equipment's Hospital Furniture, BCLs for BALANGIR District". The list of all the items with detail specification, eligibility criteria and Tender Terms and Conditions may be downloaded from District website www.balangir.nic.in.

The sealed Tender will be received through Speed Post/ Reg. Post/Courier services only on or before 12.02.2020 till 4.00 PM by CDM & PHO, BALANGIR, and the said tender will be opened on 19.02.2020 at 11.30 AM in presence of Bidders or their Authorized Representatives in the office of CDM&PHO, BALANGIR and absence of any of them will not be bar to open the quotation. Tenders received incomplete or after the scheduled date & time shall be rejected and returned unopened to the respective bidders.

Rate should be quoted for each item in F.O.R destination including all incidental charges, GST.

The undersigned has reserve right to reject any or all tenders without assigning any reason thereof. All legal disputes if any relating to the quotations are subject to Jurisdiction BALANGIR Court, Odisha only.

Sd/-

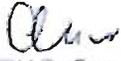
CHIEF DISTRICT MEDICAL &
PUBLIC HEALTH OFFICER
BALANGIR

Devo
CDM & PHO-Cum-DMD
Balangir

5

TENDER TERMS AND CONDITIONS

1. Tenders should be Type Written or Computerized and every correction in the tender s hould invariably be attested with signature by the tenderer with date before submission.
2. Every page submitted by the tenderer should be numbered at the top & same page number should be put in the checklist.
3. Rates quoted by bidders of Black listed manufacturing firms will not be considered & the Bidders should submit an undertaking that the manufacturer/distributor/supplier is not blacklisted by any Govt. Organization.
4. Other conditions as mentioned in Tender Call Notice are applicable.


CDM & PHO-Cum-DMD
Balangir

COMMON ELIGIBILITY CRITERIA

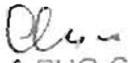
1. The Bidders should enclose attested copy of PAN card, Valid Drug License.
2. GSTIN Certificate & GSTR - 3B for last quarter as Return copy.
3. An undertaking by the Bidder regarding non blacklisting as per Annexure IV with appropriate stamp value (Rs.20/-) must be submitted along with the bid.
4. Each page must be signed with seal & serially numbered according to annexure.
5. Tender document fee of Rs.5,000.00/- in shape of Demand Draft drawn from any Nationalized Bank in favor of CDM & PHO, BALANGIR, payable at Balangir to be enclosed with tender paper which is non-refundable.
6. An Account Payee Demand Draft for Rs.50,000.00/- (Rupees Fifty thousand only) as E.M.D. Money drawn from any Nationalized Bank in favor of "CDM & PHO, BALANGIR" payable at Balangir to be enclosed with tender paper which will be returned to the unsuccessful Bidder and EMD of successful Bidders will be returned after completion of One Year.
7. The average annual turnover during the last three financial years (2016-17, 2017-18 & 2018-19) must be Rs 3.00 Crore or more for Equipment/Instrument/Furniture under Section -II & BCL items under Section - III) and Rs.2.00 Crore or more for Items under Section-I and Section-IV the bidders have to submit the Average Annual Turnover Certificate duly signed by a Chartered Accountant as per Annexure VI. The Audited Financial Statement for last three financial years in support of Turnover must be submitted along with Bid documents.
8. Valid ISO certificate of the bidder must be submitted along with the bid document.
9. Valid Registration Certificate of the Firm/ Bidder/ must be submitted.
10. Performance Certificate of the bidder for the last three financial years (2016-17, 2017-18 & 2018-19) from the end user i.e Govt. /PSU / Corporate sector duly supported with order copy (minimum 05 numbers per year) along with performance statement (as per the format in Annexure VII) must be submitted.
11. Valid Authorisation Certificate from the manufacture/ importers, if the bidder is an authorized distributor must be submitted in original.
12. List of quoted items (section wise) as per the annexure must be submitted.
13. Deviation /No Deviation statement as per Annexure - VIII A Duly signed along with seal must be submitted.
14. Leaflet/Technical Brochures of the product/item offered must be submitted for EIF. As per annexure VIIIB


CDM & PHO-Cum-DMD
Balangir

7

CATEGORY TO BE COVERED IN FOLLOWING SECTION:-

Sl.no	PARTICULARS	REMARKS
1	<u>MEDICAL CONSUMABLES,</u> <u>SURGICAL SUTURES</u> <u>LABORATORY REAGENTS,</u> <u>LABORTORY CONSUMABLES</u> <u>AND RAPID DIAGONISTIC KIT</u>	Section I
2	<u>EQUIPMENT, INSTURMENT &</u> <u>FURNITURE</u>	Section II
3	<u>BCL ITEMS</u>	Section III
4	<u>BIO MEDICAL WASTE</u> <u>MANGEMENT</u>	Section IV


CDM & PHO-Cum-DMD
Balangir

TECHNICAL ELIGIBILITY FOR MEDICAL CONSUMABLES, SURGICAL
SUTURES, LABORATORY REAGENTS, LABORATORY CONSUMABLES AND
RAPID DIAGNOSTIC KIT (SECTION-I)

The Bidder must submit the following documents on behalf of Manufacturer / Importer.

- a. Valid Up to date Manufacturing/ Import License. The bidders have to produce the original copy of authorization from the manufacturer only for this Tender...
- b. Valid up to date GMP/ WHO GMP Certificate
- c. Valid ISO certificate.(ISO 13458:2016. , ISO 14001, ISO 9001:2015, ISO 10002:2018)(as per technical specification)
- d. Valid CE as per IVD.
- e. Valid OHSAS18001:2007 /BS -18001:2007 Certificate(as per technical specification)
- f. Market standing certificate from Govt.



CDM & PHO-Cum-DMD
Balangir

9

TECHNICAL ELIGIBILITY
FOR HOSPITAL EQUIPMENT, INSTRUMENT & FURNITURE (SECTION II)

The Bidder should submit the following documents on behalf of Manufacturer /Importer.

- a) Valid Up to date Manufacturing/Import License. The bidders have to produce the original copy of authorization from the manufacturer only for this Tender...
- b) Valid up to date GMP/ WHO GMP Certificate (as per technical specification)
- c) Valid ISO Certificates (ISO 13458:2016, ISO 14001, ISO 9001:2015, ISO 10002:2018) (as per technical specification)
- d) Valid CE/ BIS/ BIFMA/ IEC/Certificates (as per the technical specification)
- e) Valid OHSAS 18001:2007 Certificate (as per the technical specification)
- f) Valid BS -18001:2007 Certificate (as per the technical specification)
- g) Test certificate from national accredited laboratories. (NABL) of India for the materials used (as per technical specification)


CDM & PHO-Cum-DMD
Balangir

TECHNICAL ELIGIBILITY FOR BCL ITEMS (SECTION III)

The Bidder should submit the following documents on behalf of Manufacturer /Importer:-

- a) The Manufacturer/ Importer should have valid Manufacturing/ Import License-
The bidders have to produce the original copy of authorization from the manufacturer only for this Tender...
- b) Valid ISO Certificates. (ISO13458:2016., ISO14001, ISO9001:2015, ISO 10002:2018) (As per technical specification)
- c) Test certificate from National Accredited Laboratories. (NABL) of India for the materials used. (As per technical specification)
- d) The Manufacturer should have 3 Years market standing in supplying to Govt. / Corporate/ PSU Hospitals in India duly supported by certificate from the concerned authority for supplying the participated items by the bidders.



CDM & PHO-Cum-DMD
Balangir

11

TECHNICAL ELIGIBILITY
FOR BIO -MEDICAL WASTE MANAGEMENT (SECTION IV)

The Bidder should submit the following documents on behalf of Manufacturer /Importer.

- a) Valid Up to date Manufacturing/Import License. The bidders have to produce the original copy of authorization from the manufacturer only for this Tender...
- b) Valid up to date GMP/ WHO-GMP Certificate (as per technical specification)
- c) Valid ISO Certificates (ISO 13458:2016, ISO 14001, ISO 9001:2015, ISO 10002:2018) (as per technical specification)
- d) Valid CE/ BIS / IEC/Certificates (as per the technical specification)


CDM & PHO-Cum-DMD
Balangir

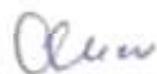
Terms and Conditions of Supply Medical Consumables, Surgical Sutures, Laboratory Reagents, Laboratory Consumables,(SECTION - I)

1. Supply of Medical Consumables, Surgical Sutures, Laboratory Reagents, Laboratory Consumables, as per the details of specifications as mentioned in Financial Bid.
2. At least ¾ (75%) shelf life in case of Medical Consumables, Surgical Sutures, Laboratory Reagents, Laboratory Consumables should be there by the time it is received at the Warehouse for the applicable items.
3. At the time of supply the Supplier must submit a test report of the Batches being supplied from approved Laboratory that, the supplied items are of standard quality (Medical Consumables, Surgical Sutures, Laboratory Reagents, Laboratory Consumables)
4. The District Authority will also do random testing of the supplied items in NABL approved laboratory for which quality testing, packing & forwarding charges if any will be borne by the supplier in case of tender items.
5. Supply should be completed within 60 Days from the date of purchase order.
6. The approved rate shall remain valid for a period of Two years from the date of approval.
7. The supply should be made in good packing condition & labeling "ODISHA GOVT. SUPPLY NOT FOR SALE" in case of Medical Consumables, Surgical Sutures, Laboratory Reagents, and Laboratory Consumables.
8. All other conditions as mentioned in Tender Call Notice are applicable.


CDM & PHO-Cum-DMD
Balangir

**TERMS AND CONDITIONS FOR SUPPLY & INSTALLATION OF MEDICAL
CONSUMABLES, SURGICAL SUTURES & HOSPITAL EQUIPMENT &
INSTRUMENT AND FURNITURE AND BCL ITEMS**

1. Sealed tenders will be received by dated 12 / 02 / 2020 up to 4 PM by the C.D.M & P.H.O, BALANGIR in the office of the C.D.M. & P.H.O, BALANGIR for Medical Consumables, Surgical Sutures, Laboratory Reagents, Laboratory Consumables, Instruments & Equipments, Hospital Furniture, BCLs. Any tender received after the due date & time will be rejected / returned to the sender unopened. **The tenders will be received through Regd. Post / Speed Post/ Courier only.**
2. The bidder(s) are to submit their tenders in **separate** sealed covered envelopes for **technical bid** and **commercial bid** by superscribing **Cover "A" (Technical Bid) & Cover "B" (Price Bid)** and both the sealed covers should be put into a **third outer Cover**, which should be superscribed as "Medical Consumables, Surgical Sutures, Laboratory Reagents, Laboratory Consumables, Instruments & Equipments, Hospital Furniture, BCLs.
3. The Sealed tenders "Cover A" (Technical Bid) submitted by the tenderer will be opened by the C.D.M.&P.H.O, BALANGIR in the office chamber of the C.D.M.&P.H.O, BALANGIR on dated 12:02:2020 at 11:30 AM/PM. The tenderer or their duly authorized representatives are allowed to be present during the opening of the tenders if they so like.


CDM & PHO-C&M-DMD
Balangir

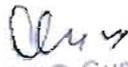
Following documents should be enclosed in "Cover- A" (Technical Bid) by the bidder. All the photocopies are to be attested by a Notary Public / Gazetted Officer/ Self Attested.

TECHNICAL BID (Cover-A):

1. Checklist with detail of the documents enclosed in Cover "A" (as per Annexure - I) with page number. The document should be *serially arranged* as per this Annexure - I and should be securely tied andbound.
2. List of Item (s) Quoted with name of the Make & Model of the item (s) (Annexure -II)
3. Earnest Money Deposit of Rs 50,000/- in shape of Demand Draft & tender document fees Rs. 5,000/- should be enclosed.
4. Details name, address, telephone no., Fax, e-mail of the manufacturer / authorized distributor / service center / contract person / office in Odisha (Annexure -III).
5. The declaration form in Annexure - IV duly signed by the tenderer before Executive Magistrate / Notary public.
6. Manufacturer's Authorization Format in Annexure -V (In case the bidder is not the manufacturer).
7. Certificate duly filled by the Auditor / Chartered Accountant (as per Annexure -VI) that the average annual turnover of the tendering firm is Rs 3.00 Crore or more for Equipment/Instrument/Furniture under Section -II & BCL items under Section - III) and Rs.2.00 Crore or more for Items under Section-I and Section-IV in the last 3 (three) financial years. The Audited Financial Report in support of Turnover must be submitted.
8. Performance Statement (Annexure - VII) during the last three years towards proof of supply of (05) or more order copies or similar to any Govt. organization / Corporate Hospitals / PSU Hospitals / UN Agencies. The copy of Purchase orders and certificate from the enduser should be furnished in support of the information provided in the performancestatement.
9. Deviation/No Deviation Statement from Technical Specification & details of technical specification of the product (Annexure-VIIIA)
10. Leaflet/Technical Brochures of the product/item offered.(Annexure-VIIIB)
11. Copy of Valid Manufacturing License of the manufacturer (s) / Import License by the Importer (also to be submitted by the authorized distributor).
12. Copy of Valid ISO certificate(ISO 13458:2016. , ISO 14001, ISO 9001:2015, ISO 10002:2018)(as per technical specifaction)
13. Copy of Valid WHO -GMP Certificate (as per -Technical Specification).

15

14. Copy of Valid **CE/ OHSAS/ BSCertificate** as per Technical Specification).
15. Copy of Valid **BIFM** certificate (as per Technical Specification).
16. Copy of GSTR - 3B for last quarter.
17. Copy of Certificate in support of **IEC** certificate (as per Technical Specification)
18. Copy of valid **GSTIN** certificate.
19. The Original Tender Document with Conditions and the schedules signed by the tenderer at the bottom of each page with his official seal duly affixed.
20. Certificate in support of service center in Odisha or undertaking to set up service centers in Odisha within one month from the date of installation if approved (for those who have no service centers in Odisha) for equipment instrument and furniture.


CDM & PHO-Cum-DMD
Balangir

COVER – B (PRICE BID)

1) The tender format in which quoted rate for medical equipments should be submitted in a separate sealed cover hereafter called Cover "B" (Price Bid).

Cover –B (Price Bid) will be opened only of the Bidders who qualify in Technical Bid (Cover – A) and product is as per the tender specification.

The tender format (Price Schedule) in the prescribed form (as per Annexure – IX both hard copy and soft copy must be submitted in Cover-B. The price of the item should be quoted inclusive of excise duty, insurance, packing, forwarding, freight (door delivery) and warranty for 2 years (in case of EIF). The price of CMC for 3 years, turnkey job (cost of accessories if any for installation), GST (if any) should be quoted in a separate column (in case of EIF). The rate should be quoted for *each item* both in figures and words. In case of difference in words and figures, words will be taken into consideration for evaluation.

N.B: Valid means the certificate should be valid on or beyond the date of opening of tender

The Cover "B" of Bidder, who qualifies in their technical bid, will only be opened at the office chamber of the C.D.M&P.H.O, BALANGIR by the C.D.M. & P.H.O BALANGIR in the presence of the tenderers or their authorized representatives.

REJECTION OF TENDER

The bidder will be rejected, if any of the documents prescribed in common eligibility criteria and the documents prescribed in technical eligibility for section-I, II, III & IV are wanting/not submitted with the tender.

EARNEST MONEY DEPOSIT

The Earnest Money Deposit shall be Rs. 50,000.00/- (Rupees Fifty thousand) only per tender. The Earnest Money Deposit will be submitted in the shape of demand Draft only in favour of from any Nationalized / Scheduled Bank payable at balangir.

The EMD of the unsuccessful tenderers will be returned back without interest after placement of purchase order to the successful tenderer and EMD of successful tenderer will be returned after submission of performance security.

The EMD will be forfeited if the tenderer withdraws the tender or doesn't sign the contract / doesn't supply the items (in case of successful bidder) within the stipulated time period.


CDM & PHO-Cum-DMD
Balangir

17

SECURITY DEPOSIT: (Performance Security)

The performance Security should be submitted in shape of Bank Draft/Bank Guarantee from a Nationalised Bank in favour of **CDM & PHO, Balangir** equal to the amount of **5% of the purchase order value of the item** within 21 days of issue of the purchase order.

The agreement (as per Annexure – X) will be signed between the supplier and the consignee/purchaser and will be kept by the consignee. A copy of the agreement will be kept by the purchasing authority. The agreement must be submitted before the payment is released.

The Performance Security will be returned back to the tenderer without interest after the expiry of the warranty period i.e. two years after the date of installation/signing of the CMC agreement whichever is earlier.

Performance Security will be forfeited if there is any violation of the tender terms and conditions.

TENDER CONDITIONS:

The details of the medical equipments with specifications are mentioned in **Section V. The firm must clearly mention their specification, special features, upgraded version (if any) in their tender.**

Tenders should be type written or computerized and every correction in the tender should invariably be attested with signature by the bidder with date before submission, failing which the tender will not be eligible for further consideration.

Rates inclusive of excise duty / customs duty, packing, forwarding, insurance, transportation charges with 2 years onsite warranty and exclusive of GST should *be quoted for the Equipment's (Item wise) on door delivery basis. The turnkey job (cost of accessories if any for Installation/Commissioning), 3 year CMC cost & GST should be mentioned in separate columns.* The rates quoted should be in **Indian Rupees only**. Rates quoted in any other currency will not be accepted.

The purchaser shall be responsible only after delivery and due verification, installation and commissioning of the equipment.

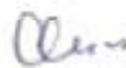
The rate per unit packing shall not vary with the quantum of order placed for destination point.

If there is difference between figures & words, words will be taken into consideration.

In the **event** of the date being declared as a holiday by Govt. of Odisha, the due date of sale, submission of bids and opening of bids will be the following working day at the appointed place & time.

The price quoted by the tenderers shall not in any case, exceed the controlled price, if any, fixed by the **Central/State Government/DGS&D** and the Maximum Retail Price (MRP). The purchaser, at his discretion, will in such case, exercise the right of revising the price at any stage so as to conform to the controlled price or MRP as the case maybe.

The rate quoted and accepted will be binding on the bidder for a period of **Two years** from the date of placement of purchase order and on no account any increase in the price will be entertained till the completion of **this tender period**.


CDM & PHO-Cum-DMD
Balangir

No tenderer shall be allowed at any time on any ground whatsoever to claim revision of or modification in the rate quoted by him. Clerical error / typographical error, etc. committed by the tenderers in the tender forms shall not be considered after opening of tenders. Conditions such as "**SUBJECT TO AVAILABILITY**" / "**SUPPLIES WILL BE MADE AS AND WHEN SUPPLIES ARE RECEIVED**" etc., will not be considered under any circumstance and the tenders of those who have given such conditions shall be treated as incomplete and for that reason, shall be rejected.

If at any time during the period of contract, the price of tendered item is reduced or brought down by any law or act of the Central or State Government or the tenderer, the tenderer shall be morally and statutorily bound to inform the C.D.M&P.H.O, BALANGIR, Odisha immediately about such reduction in the contracted price. The C.D.M&P.HO, BALANGIR, Odisha is empowered to unilaterally effect such reduction in rate in case the tenderer fails to notify or fails to agree for such reduction of rate.

Approved rate with terms, conditions & the quoted price of the tender shall remain valid for a period of **Two Years** from the date of issue of the purchase order or till issue of next tender for these items whichever is earlier.

If the relevant documents / certificates which are required to be furnished along with the tender are written in language other than English, the tendering firm shall furnish English version of such documents / certificates duly attested by a Gazetted Officer / Notary with his seal and signature.

If any information or documents furnished by the tenderer with the tender papers are found to be misleading or incorrect at any stage the tender of the relevant items in the approved list shall be cancelled and steps will be taken to blacklist the said firm for five (5) years.

Rate should be quoted in Indian Currency, both in words and figures against each item as the payments will be made in Indian currencies only (Annexure-IX). The bidder shall not quote his own rate for any item other than the item specified in the list. (**Section IV- Schedule of Requirement**).

Both Cover-A and Cover-B should have an **indexed and page numbered** of all the documents submitted inside that cover.

GST will be charged as per the guidelines given by the Finance Dept., Govt. of Odisha from time to time.

The requirement of items may increase or decrease depending on the situation.

PACKAGING:

9.1 All the packaging should be primary (New). The supplier shall provide such packaging of the goods as is required to prevent their damage or deterioration during transit to their final destination. The packaging shall be sufficient to withstand without limitation, rough handling during transit and exposure to extreme temperature, salt and precipitation during transit and upon storage.


CDM & PHO-Cum-DMD
Balangir

TURNKEY:

10.1 The external power supply will be provided by the purchaser but the internal wiring and electrical fittings inside the room for installation & commissioning of the equipment & Instrument and accessories if any required for installation & commissioning will be provided by the supplier without any extra cost (apart from the cost mentioned under turnkey in the Price schedule).

COMPREHENSIVE WARRANTY & CMC:

(Undertaking as per Annexure – XI & XII)

The comprehensive warranty will remain valid for 2 years from the date of installation & commissioning of the equipment. The original copy of warranty documents will be submitted to the consignee and photocopy of that to C.D.M & P.H.O, BALANGIR after installation.

The warranty will cover **all the parts of the machine or item and any replacement or repair required** within the warranty period and will be provided by the supplier free of cost at the destination point (installation point). The supplier will take back the replaced parts / goods at the time of their replacement. No claim whatsoever shall be on the purchaser for the replaced parts / goods thereafter. No traveling allowances or transportation cost will be paid by the purchaser during the warranty period.

The Supplier shall warrant that the Goods supplied under this contract are new, unused, of the most recent or current models and they incorporate us recent Improvements in design and materials. The Supplier shall further warrant that all Goods supplied under this contract shall have no defect arising from design, materials or workmanship or from any act or omission of the Supplier that may develop under normal use of the supplied Goods in the conditions prevailing in the place of final destination.

CMC: The tenderer shall also undertake to provide offer for CMC (Labor + all spare) for the next three (3) years after two (2) years of warranty. No extra cost will be paid other than the CMC cost for functioning of the item during this period. The supplier will provide One (1) preventive maintenance in every six months during the period of CMC.

The selected firm should have a service centre in Odisha.

All the warranty certificates must be handed over to the consignee after installation.

TRAINING & OPERATIONAL MANUAL:

The firm / supplier will provide hands on training to two doctors and two technicians in his own cost for operating / handling the medical equipments within 15 days of installation of equipment.

The supplier / firm will provide the operational/maintenance manuals and tools (if required) of all items, equipments & turnkey to the consignee at the time of installation.


CDM & PHO-Cum-DMD
Balangir

UPTIME GUARANTEE:**13.1 UP-TIME BALANCE:**

The Supplier (s) shall provide guarantee 95% uptime during comprehensive warranty period i.e. for 2 years from the date of installation & commissioning. Any uptime less than the specified period above will be compensated by the Supplier(s) by extending the warranty period. The consignee shall maintain a logbook in the format provided by the Supplier(s) which will indicate usage of the equipment every day and for calculation of up-time.

DOWNTIME PENALTY CLAUSE:

During the Guarantee / warranty period, desired uptime of 95% of 365 days will be ensured (24 hour). If downtime exceeds 5%, penalty in the form of extended warranty, double the number of days for which the equipment goes out of service will be applied. The vendor must undertake to supply all spares for optimal upkeep of the equipment for **TWO YEARS** after installing the unit in the institute. If accessories / other attachment of the system are procured from the third party, then the vendor must produce cost of the accessory / other attachment and the CMC from the third party separately along with the main offer and the third party will have to sign the CMC with the institute if required.

In no case equipment should remain in non-working condition for more than 7 (seven) days from the date of complaint, beyond which a penalty will be applicable as per Rule.

The principals or their agents are required to submit a certificate that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee.

SPARE PARTS:

The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee / warranty period should be attached/enclosed along with the CMC Agreement.

If the tenderers shall furnish the list of spares along with their cost in the financial Bid separately, that will not be taken for evaluation.

Local agents / distributors quoting on behalf of the manufacturer / importer must attach the authority letter in their favour.

LOGOGRAMS AND LABELLING:

16.1 Tenderer for the supply of medical equipments shall give an undertaking in his tender that he will print "Govt. of Odisha Supply - Not For Sale" in bold letters in indelible ink on the equipment.


CDM & PHO-Cum-DMD
Balangir

ACCEPTANCE OF TENDER AND SUPPLY CONDITIONS:

The C.D.M&P.H.O, BALANGIR reserves the right to reject the tenders or to accept the tenders for the supply of the item tendered without assigning any reason thereof.

The C.D.M&P.H.O, BALANGIR will be at liberty to terminate the contract either wholly or in part without assigning any reasons thereof. The tenderers will not be entitled to any compensation whatsoever for such termination.

The supply should be completed within 30 days from the date of issue of purchase order unless otherwise specified. If no supply is received even after 60 days or 88 days with liquidated damage from the date of issue of the purchase orders from the C.D.M & P.H.O, BALANGIR such orders will stand cancelled automatically without further notice. Penalties shall also thereafter be applied to the tenderer. The approved firm shall also suffer forfeiture of the EMD and Security Deposit.

If the approved supplier fails to execute the supply within the stipulated time, the C.D.M&P.H.O, BALANGIR is empowered to purchase the same items from L₂ or L₃ tenderer if they match the L₁ rate.

The C.D.M&P.H.O, BALANGIR or his authorized representative (s) has the right to inspect the factory of those company who have quoted for the tender, before accepting the rate quoted by them or before releasing any purchase order (s) or at any point of time during the validity period of tender and has also the right to reject the tender or terminate / cancel the orders issued or not to reorder based on the facts brought out during such inspections.

EVALUATION:

The rates of the item quoted by the tenderer who qualify technically will be evaluated after taking the following points into consideration:-

- a) Rate of the medical equipments will be taken after inclusion of the excise duty / customs duty, transportation, insurance, packing & forwarding & comprehensive warranty for two (2) years, cost of turnkey (cost of accessories if any for installation/commissioning) & CMC for for next three (3) years but excluding GST.
- b) The cost of the medical equipments (excise duty / customs duty, transportation, insurance, packing & forwarding & comprehensive warranty for two (2) years but excluding GST), cost of turnkey (cost of accessories if any for installation/commissioning with a) taxes for turnkeys) & cost of CMC for next three (3) years after warranty will be added and the lowest responsive bidder will be selected.
- c) The circulars issued by the Finance Department, Govt. of Odisha from time to time regarding tax matters shall be taken into account for evaluation and shall be binding on the bidders.


 CDM & PHO-Cum-DMO
 Balangir

LIQUIDATED DAMAGE:

The C.D.M&P.H.O. Balangir may allow extension for a maximum period of 4 (four) weeks (28 days), after the stipulated date of supply (i.e. 60 days) with a penalty of 0.5% which will be deducted from the purchase order value as "Liquidated Damage", for each week (7 days) upto a maximum 2% on the value of the goods. If the supplier fails to complete the supply within the extended period, i.e. 88 days after being allowed by the C.D.M&P.H.O./C.M.O, no further purchase order will be placed to the firm for the said item and the concerned firm will be blacklisted for two (2) years from the date of issue of letter for the said item.

TERMS OF PAYMENT :

No advance payments towards cost of medical equipments or turnkey job will be made to the tenderer. 90% of the cost of the equipment (excluding CMC Cost) + 100% turnkey job + 100% tax shall be paid to the supplier on receipt of the stock entry certificate, installation and demonstration of the item from the consignee. The balance 10% of the payment of equipment will only be made after receipt of certificate on working status of the equipment from the consignee after 6 weeks of installation and commissioning of the equipment for which, the supplier has to raise two bills (A) one for 90% of the cost of the equipment + 100% turnkey job + 100% taxes (B) the other for balance 10% of the cost of the equipment.

Payments as mentioned above will only be made after keeping 5 % of performance security deposit of the total purchase order value from the supplier .

No claims shall be made against the C.D.M&P.H.O, BALANGIR in respect of interest on earnest money deposit or security deposit or any delayed payment or any other deposit. Payments will be preferably made in shape of e-payment / on-line transfer

The payment of CMC will be made on a six monthly basis, after completion of warranty period and signing of the CMC agreement.

PENALTIES:

If the successful tenderer fails to deposit the required security within the time specified or withdraws his tender after acceptance of his tender owing to any other reasons or unable to undertake the contract, his contract will be cancelled and the earnest money deposit & security deposit submitted by him along with his tender shall stand forfeited by the C.D.M&P.H.O, BALANGIR, Odisha by reasons of such breach, such as failure to supply / delayed supply.


CDM & PHO-Cum-DMD
Balangir

Violating the tender terms and conditions & non supply / supply of Not of Standard Quality equipment, will disqualify the firm to participate in the tender for a period of 2 (two) years from the date of issue of letter and his E.M.D & security deposit will be forfeited and no further purchase order will be placed to that firm for that item.

In the event of any dispute arising out of the tender, such disputes would be subject to the jurisdiction of the Civil Court of the Concern District or High Court of Odisha.

Inspection / Testing:

22.1 The selected supplier shall have to arrange for demonstration of the equipment at the supply point. The purchaser or its nominated representative(s) shall inspect and test the equipments at the supply point to check their conformity to the specifications and other details incorporated in the contract.

CONDITIONS APPLICABLE TO LOCAL MSEs / SSI's OF ODISHA:

The MSE / SSI Units of the State of Odisha will be given the following preferences in the tenders provided they produce the following documents as per MSME Development Policy- 2009 and IRP - 2007:

1. Attested copy of valid manufacturing licence.
2. P.M.T Certificate from the Director of Industries, Odisha or General Manager District Industries Centre that it is a MSE / SSI Units of the State of Odisha, provided that MSE/SSI unit has not been derecognized by the Govt. for that specified period.
3. Local Micro & Small Scale Enterprises (MSE) and Khadi & Village industrial units including handloom and handicrafts will enjoy a price preference of 10% vis-à-vis over local medium and large industries as well as industries outside the State. Local Micro & Small Scale Enterprises having ISO, ISI Certification for their product shall get an additional price preference of 3% as per provision of IPR-2007.
4. Local MSEs registered with respective DICs, Khadi, Village, Cottage and Handicraft Industries, OSIC, NSIC shall be exempted from payment of earnest money and shall pay 25% of the prescribed security deposit. Clause number 1 to 22 is also applicable to the Small Scale Industry Units of the State of Odisha.


CDM & PHO-Cum-DMD
Balangir

ANNEXURE-I

Check list for supply of Medical Consumables, Surgical Sutures, Laboratory Reagents, Laboratory Consumables, Instruments&Equipments, Hospital Furniture, BCLs

(To be submitted in Cover A Technical Bid)

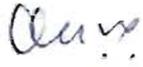
Note : The documents has to be arranged serially as per the order mentioned in the check list

Please put (Tick mark)in the respective box

COVER – A(TECHNICAL BID)

SL No.	PARTICULARS	SUBMITTED OR NOT		PAGE NO	
		YES	NO	FROM	TO
1	List of Item (s) Quoted AnnexureII				
2	Tender document fess & Earnest Money Deposit				
3	Details of Manufacturing Unit / contract person Liaisoning agent / servicing centre (AnnexureIII)				
4	Declaration form (Annexure -IV) signed by the Tenderer & affidavit before Notary Public / ExecutiveMagistrate				
5	Manufacturer's Authorization Format(Annexure – V) from manufacturer / impoter if bidder is an authorized distributors				
6	Copy of Audited Balance sheet for last three financial year of Bidders along with the annual average turnover certificate of Rs. 3.00 Cr/2.00 Cr. or more.(as per annexure VI)				
7	Proof of Annual average turnover of Rs. 3.00 Crore/2.00 Crore or more for preceding 3 financial years (Annexure - VI) of manufacturing firm				
8	Market standing certificate (for manufacturer) & Performance during the last three year for bidder (Annexure -VII) Statement (Purchase Order Wise)				
9	Copies of Purchase order in support of the performance statement				
10	Deviation/No deviation Statement (Item wise) &details of technical specification (Annexure –VIII A & B				
11	Leaflets/Technical Brochures of the Products offered				
12	Copy of Manufacturing License / import license				
13	Copy of Valid ISO Certificates of manufacturer ,(as per specification)				
14	Copy of Valid ISO Certificates of bidder				
15	Copy of GMP / WHO GMP				

16	Attested Photocopy of Up-to-date CE / BIS / IEC / BIFMA/ EC Certificate) (As per technical specification)				
17	Attested Photocopy of Up-to-date OHSAS; 18001: 2007/ BS 18001: 2007 (As per technical specification).				
18	Test certificate from NABL as per Technical specification				
19	Photocopy of PAN				
20	Photo copy of Drug license of bidder				
21	Photocopy of Registration certificate of bidder.				
22	Photocopy of GSTIN certificate & GST last Quarter return copy.				
23	Copy of original Tender and schedules, duly signed by the Tenderer				


 CDM & PHO-Cum-DMD
 Balangir

(To be submitted in *Cover A - Technical Bid*)

LIST OF ITEM(S) QUOTED

Sl.	Name of Item(s)	Name of Manufacturer	Make	Model Name

Signature of the Bidder:

Date:

Official Seal:


CDM & PHO-Cdm-DMD
Balangir

ANNEXURE -III(To be submitted in *Cover A -Technical Bid*)**DETAILS OF THE BIDDER & LOCAL CONTACT PERSON**

	Corporate Office (The address in which the purchase orders and payment details will be communicated)	Local Contact Person / Branch Office / Zonal Office / Service Centre if any, in Odisha.
Name & Full Address		
Telephone Nos., landline		
Mobile		
Fax		
E - Mail		
Date of Inception	Copy of Certificate of incorporation of Manufacturer / Registration Certificate	
Manufacturing License Nos. & Date	Copy of manufacturing licence of Manufacturer)	
Name of the issuing authority		
License valid up to		

**Signature of the Tenderer:
with seal**

Date: Official

Seal:


CDM & PHO-Cum-DMD
Balangir

(To be submitted in *Cover A - Technical Bid*)
DECLARATION/ UNDEERTAKING FORM

I/ We

.....h

aving

My / our

.....

office

at.....do declare that I / We have carefully read all the terms & conditions of tender of the _____, Odisha for the supply of medical equipments. The approved rate will remain valid for a period of one year from the date of approval. I will abide with **all the terms & conditions** set forth in the **Tender Reference No. _____**

I/We do hereby declare I/We have not been de-recognised / black listed by any State Govt. / Union Territory / Govt. of India / Govt. Organization / Govt. Health Institutions for supply of Not of Standard Quality (NSQ) items / non-supply.

I/We agree that the Tender Inviting Authority can forfeit the Earnest Money Deposit and or Security Deposit and blacklist me/us for a period of 5 years if, any information furnished by us proved to be false at the time of inspection / verification and not complying with the Tender terms & conditions.

I/We further declare that I/We possess valid manufacturing license (s) bearing No. (s) Valid upto I /

We..... do hereby declare that I / we will supply the _____ as per the terms, conditions & specifications of the tender document. I / we further declare that I / we have a service centre / will establish a service centre within one month of installation of the equipment in Odisha.

Signature of the bidder:

Date:

Seal

Name & Address of the Firm:

N.B: 1) Affidavit before Executive Magistrate / Notary Public.

2) Should be in appropriate stamp paper (Rs.20)


 CDM & PHO-Cum-DMD
 Balangir

ANNEXURE -V

(To be submitted in *Cover A -Technical Bid*)
MANUFACTURER'S AUTHORISATION FORMAT

To

The CDM&PHO, Balangir _____
 Deptt. of Health & Family Welfare
 Govt. of Odisha.

Ref: TenderNo. _____ Dated _____ for _____.

We, _____ are the manufacturers of _____
 _____ (name of equipment(s) having factories at _____

Dear Sir,

_____.

1. Messrs _____ (name and address of the agent) is our Authorized agent for sale and service of _____ (name of equipment(s))
2. _____ We confirm that Messrs _____ (name of the above agent) is authorized to submit a tender, and enter into a contract with for the above goods manufactured by us.
3. We also extend our full guarantee / warranty and also full back-up support for AMC/CMC as required by the purchaser.

Yours faithfully,

(Signature with date, name and designation)

For and on behalf of Messrs _____
 (Name & address of the manufacturers) Seal

Note:

1. This letter should be on the *letterhead* of the *manufacturer* and should be signed by a person having the power of attorney to legally bind the manufacturer.
2. Original letter shall be attached to the technical bid.

(To be submitted in **Cover A -Technical Bid**)


 CDM & PHO-Cum-DMD
 Balangir

ANNEXURE -VI*(To be furnished in the letter head of the Auditor)***ANNUAL TURN OVER STATEMENT**

The Annual Turnover for Equipment products of M/s _____
 _____ who is a manufacturing unit for
 the last _____ years are given below and certified
 that the statement is true and correct.

Sl.No.	Year	Turnover in Crores (Rs.)
1.	2016-2017	-
2.	2017-2018	-
3.	2018-2019	-

Average Annual Turnover (for the above three years) in Crores (Rs.) _____

Date:
Place:

Signature of Auditor/
Chartered Accountant
(Name in Capital)

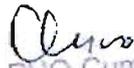
Seal

Membership No.-

Registration No. of Firm

Note:

- To be issued in the letter head of the Auditor.*
- Separate certificates should be furnished for different manufacturer in case the bidder is quoting products of different manufacturers.*


CDM & PHO-Cum-DMD
Balangir

(To be submitted in Cover A - Technical Bid)
Annexure VII (Refer Clause no. 5.9)
PROFORMA FOR PERFORMANCE STATEMENT
 (For the period of last three years)

Tender Reference No. _____ ;
 Name of Tenderer: _____ ;
 Name of Manufacturer _____ ;
 Name of the Item (s): _____

Sl.	Order placed by (Address of purchaser) (attach documentary proof)*	Order no. & Date	Item Name	Make & Model	Qty	Value of Contract (Rs.)	Date of Completion		Reasons for delay if any	Have the goods been functioning satisfactorily (attach documentary proof)**
							As per contract	Actual		
1										
2										
"										
4										

Signature and seal of the Tenderer

- * The documentary proof will be copies of the purchase order (during the last 2years) indicating Contract No. and date along with a notarized certification (by the bidder) authenticating the correctness of the information furnished.
- ** The documentary proof will be certificate from the consignee/end user indicating Contract No. and date along with a notarized certification (by the bidder) authenticating the correctness of the information furnished.

[Handwritten Signature]
 CDMA & PTO Camp-DMD
 Bangalore

(To be submitted in *Cover A -Technical Bid*)

Annexure VIII A

STATEMENT REGARDING DEVIATIONS FROM TECHNICAL SPECIFICATIONS (IF ANY)

Following are the Technical deviations and variations from the purchaser's Technical Specifications.

Sl. No.	Item Name	Clause of Technical Specification	Statement of Deviations / Variations if any
1			
2			
..			
..			
..			

In case there is no deviation from technical specification, Pl. Mention *No Deviation*.

Signature of the Bidder

Name:

Date:

Place:

Seal

Alena
 COM. & PHO. Cum DMD
 Bangalore

(To be submitted in *Cover A - Technical Bid*)**Annexure VIII B****DETAILS OF TECHNICAL SPECIFICATION OF THE PRODUCT OFFERED BY THE BIDDER**

Sl. No.	Item Name	Make	Model	Detail Specification of the product offered* (PL Describe the detail specification of the product offered)
1				
2				
--				
--				
--				

* Leaflets/Technical Brocheures of the product offered must be attached in support of the information provided above.

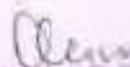
Signature of the Bidder

Name:

Date:

Place:

Seal


 CDM & PNO-Cum-DMD
 Balangir

ANNEXURE**(To be submitted in COVER B - PRICE BID)**

ANNEXURE-IX

To be submitted in Cover B - Price Bid (Only in case of Equipment/Instrument/Furniture)

MODEL TENDER FORMAT (PRICE SCHEDULE)

Name of the Item (Item mentioned in the schedule of requirement) (With Make & Model)	Specification (Section V)	Unit Price of One Set of Equipments/ Instruments which includes excise duty/ custom duty, packing, insurance, forwarding / transportation (door delivery) with 2 (two) years onsite warranty & excludes GST Cost in Rs. (both in words & figures)	CMC (excluding Service Tax) for three years after expiry of two years warranty period (please mention on yearly basis) where as applicable	**Cost of Turnkey if any (all accessories for installation & commissioning, including all taxes for turnkey in Rs. (Door delivery & installation) where as applicable	*Total Cost (Unit Price with CMC & Turnkey if any) (Exclusive of GST)	GST (if any) on & above the item price mentioned in (3) (Mention whether CST / SST and ET, the % of tax & it's value in Rs.)
(1)	(2)	(3)	(4)	(5)	6=3+4+5	7
			1 st year: 2 nd year: 3 rd year: Total			

* The total cost shall be taken into account for evaluation. This will exclude the CST/GST if any. CST/GST which will be chargeable on the price (3) shall be mentioned separately in column 7 above.

** The cost of turnkey shall only be quoted if any specific accessories/equipment is required for installation & commissioning. In case of turnkey, the details of accessories/equipment are to be mentioned.

Date :
Place :

Signature of the Bidder:

Name

Seal

[Handwritten Signature]
COM & PHO, Camp-0440
Bhatnagar

55

ANNEXURES

(Agreement, Warranty and CMC Undertaking)

ANNEXURE-X
(Refer clause no.7.1.2)

AGREEMENT

THIS AGREEMENT IS MADE AT _____ THIS THE DAY OF _____ 201__

BETWEEN

Name of the Supplier
with full address

Here in after called the "Supplier(s)" _____ as 1st Party

AND

The C.D.M&P.H.O, Balangir
Health & F.W. Department
Represented through the

_____ / **THE CONSIGNEE** Herein after called the "PURCHASER" _____ as 2nd Party.

Relying on the documents and representation of facts connected to the issue of aforesaid parties to undertake the responsibilities of sell and purchase of following equipment(s) etc. with the terms & conditions hereinafter laid down.

And whereas the 2nd party "Purchaser(s)" is willing to purchase

Name of the Item:

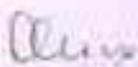
Specifications: As per specifications laid down in the Tender terms & conditions

The Supplier(s) has agreed to sell the equipment(s) completed in all respects according to the Tender requirements and their /his offer dtd _____ and the Supplier(s) has also agreed to install to make them operative at the destination mentioned in the Tender document with the following descriptions and their cost mentioned against each.

<u>Description of goods:</u>	<u>Offered Price</u>	<u>Total</u>
------------------------------	----------------------	--------------

The price / cost of the item also include the followings in addition to above.

1. Insurance
2. Freight
3. Transportation
4. Customs duty / Excise duty
5. Charges for documents, instructions manual, tools
6. F.O.R. at the destinations mentioned in the consignee list
7. Training to doctors & technicians.


CDM & PHO-Cum-DMO
Balangir

8. Maintenance of the system includes all accessories supplied and their spare parts required during comprehensive warranty period of two year at free of cost from the date of successful installation and satisfactory functioning of the system at the site.
9. Installation and commissioning of the system by the Supplier's engineer at site.
10. Any other charges including loading & unloading, packing & forwarding etc. will be paid by the Supplier(s) till the completion of the installation and turnkey job if any.

CMC cost for next 3 (three) years after the warranty period shall be paid after completion of the warranty period (on a six monthly basis).

TERMS AND CONDITIONS:-

PRICE:-

Only the price quoted by the Supplier(s) in his / their financial proposal will be the price for payment and no other price escalation will be allowed at any circumstances.

TERMS FOR PAYMENT :-

A. The payment(s) shall be made by purchaser in Indian currencies. No advance payments towards cost of Instruments and Equipments etc. will be made to the tenderer. No payment will be made to the supplier if he has not deposited the unconditional performance security in shape of Bank draft amounting to 10% of the purchase order value which will be deposited in with the warranty for 2 years agreement to the consignee.

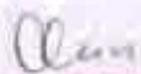
90% of the cost of the equipment (excluding CMC Cost)+100% turnkey +100% GST shall be released to the supplier on receipt of stock entry certificate and installation certificate (that it is working) from the consignee. The remaining ten percent (10%) will be released after satisfactory working certificate received from the consignee after 6 weeks of installation subject to submission of performance security (10% of P.O. Value). For this purpose the supplier will submit two bills, one 90% of the cost of the equipment+100% turnkey +100% tax and the other for the remaining ten percent (10%) of the cost of the equipment.

B. Before release of payment the supplier has to submit the signed agreement, warranty documents of equipment and turnkey job to the consignee. The undertaking as per Annexure - XI & XII will also be submitted to the consignee with photocopies to the purchaser.

C. The payment of CMC will be made on six monthly bases after expiry of the warranty period and signing of the CMC agreement.

TURNKEY JOB:

The external power supply will be provided by the purchaser but the internal wiring and electrical fittings inside the room for installation & commissioning of the equipment and accessories will be provided by the supplier without any extra cost (This cost is to be included in the cost of turnkey)


CDM & PMO-Cum-DMD
Babalpur

ANNEXURE - X
(Refer clause no. 7.1.2)

AGREEMENT

THIS AGREEMENT IS MADE AT _____ THIS THE DAY OF _____ 201__

BETWEEN

Name of the Supplier
with full address

Here in after called the "Supplier(s)" _____ as 1st Party

AND

The C.D.M&P.H.O, Balangir
Health & F.W. Department
Represented through the

_____ / **THE CONSIGNEE** Herein after called the "PURCHASER" _____ as
Party.

Relying on the documents and representation of facts connected to the issue of aforesaid parties to undertake the responsibilities of sell and purchase of following equipment(s) etc. with the terms & conditions hereinafter laid down.

And whereas the 2nd party "Purchaser(s)" is willing to purchase

Name of the Item:

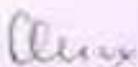
Specifications: As per specifications laid down in the Tender terms & conditions

The Supplier(s) has agreed to sell the equipment(s) completed in all respects according to the Tender requirements and their /his offer dtd. _____ and the Supplier(s) has also agreed to install to make them operative at the destination mentioned in the Tender document with the following descriptions and their cost mentioned against each.

<u>Description of goods</u>	<u>Offered Price</u>	<u>Total</u>
-----------------------------	----------------------	--------------

The price / cost of the item also include the followings in addition to above.

1. Insurance
2. Freight
3. Transportation
4. Customs duty / Excise duty
5. Charges for documents, instructions manual, tools
6. F.O.R. at the destinations mentioned in the consignee list.
7. Training to doctors & technicians.


CDM & FHO-Cum-DMD
Balangir

UP-TIME BALANCE :

The Supplier (s) shall provide guarantee 95% uptime i.e. 41610 (95% of 43800 Hours) during comprehensive warranty period. The up time guarantee will be 95% as calculated here under i.e. 8322 hours per annum.

1 year – 365 days (24 working hours per day)

Total working time per annum – 365 days x 24 hrs = 8760 hrs. Up time guarantee - 0.95 x 8760 hrs. = 8322 hrs. per annum.

For 2 years warranty = 8322 x2 = 16644Hours

Any uptime less that specified above will be compensated by the Supplier(s). The consignee shall maintain a log-book in the format provided by the Supplier(s) which will indicate usage of the equipment every day and for calculation of up-time.

DOWNTIME PENALTY CLAUSE:

During the Guarantee / warranty period, desired uptime will be 95% of 365 days (24 hour) if downtime exceeds 5%, penalty in the form of extended warranty, double the number of days for which the equipment goes out of service will be applied. The vendor must undertake to supply all spares for optimal upkeep of the equipment for **TWO YEARS** from the date of installation at the site. If accessories / other attachment of the system are procured from the third party, then the vendor must produce cost of accessory / other attachment and the CMC from the third party separately along with the main offer and the third party will have to sign the CMC with the consignee if required.

In no case equipment should remain in non-working condition for more than 7 working days.

The manufacturers or their agents are required to submit a certificate that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee.

COMPREHENSIVE MAINTENANCE CONTRACT:

The supplier will provide CMC for 3 (three) years after the completion of 2 years comprehensive warranty period.

Alison
COM & PHG-Cum-DMD
Balangir

INSTALLATION AND DEMONSTRATION :

The installation and demonstration of the equipment shall be done by the Supplier(s) at free of cost at the installation site of the respective institutions.

TRAINING:

Supplier(s) shall impart adequate training to 2 doctors and 2 technicians at the site / his / their factory / workshop inside / outside India as the case may be at the Supplier(s) cost.

PERT CHART :

Failure to stick to the pert chart will attract penal charges like forfeiture of performance security.

INCIDENTAL SERVICES :

The Supplier(s) shall abide by the terms and conditions under incidental services & the installation of Instrument / Equipment at the destination point (Door Delivery) of consignee and demonstrate the machine in working condition to the receiving authority.

Furnishing of tools required for assembly and / or maintenance of the supplied Instruments / Equipments.

Furnishing of detailed operations and maintenance manual literatures for each appropriate unit of supplied Goods.

Performance or supervision or maintenance and / or repair of the supplied Goods, for a period of two (2) years i.e. the warranty period, provided that this service shall not relieve the Supplier of any warranty obligations under this contract.

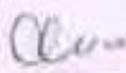
The successful supplier shall replace any part or whole system as may be necessary in the event of damage during transit or found damaged on arrival or during installation of the system or if found not in conformity to the specifications at his / their own cost.

The tenderer should furnish an undertaking to the effect that he / they should take responsibility after sales service of the equipments / instruments to be supplied by him / them and to provide spare parts for up keeping the Equipments / Instruments for a minimum period of 10 years from the date of installation.

The tenderers shall clearly mention the price of the instruments / equipments inclusive of warranty for a period of 2 (two) years commencing from the date of installation. The tenderers shall submit undertaking for C.M.C (Comprehensive Maintenance Cost) for a period of 3 (three) years from 3rd year onwards duly signed by authorised signatories for the execution at appropriate time (Annexure - X & XI).

SPARE PARTS :

The supplier will provide all the spare parts, repairing & maintenance by its trained personnel after the warranty period (2 years) during the CMC period.


 CDM & PHO-Cum-OMD
 Bangalore

COMPREHENSIVE WARRANTY :

This warranty shall remain valid for two (2) years from the date of installation & commissioning of the machine / item & must be submitted at the time of installation to the consignee with a photocopy to the purchaser.

The warranty will cover all the parts of the machine or item and any replacement or repair required within the warranty period will be provided by the supplier free of cost at the destination point (Installation point). The supplier will take back the replaced parts / goods at the time of their replacement. No claim whatsoever shall be on the purchaser for the replaced parts / goods thereafter. No traveling allowances or transportation cost will be paid by the purchaser during warranty period.

The Supplier warrants that the Goods supplied under this contract are new, unused, of the most recent or current models and they incorporate all recent improvements in design and materials (even if the advanced facilities are not mentioned in our product specification) . The Supplier further warrants that all Goods supplied under this contract shall have no defect arising from design, materials or workmanship (except when the design and / or material is required by the Purchaser's Specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the place of final destination.

The Purchaser / consignee shall promptly notify the Supplier in writing / Fax / Telephone of any claims arising under this warranty.

Upon receipt of such notice, the Supplier shall with all responsible speed will repair or replace the defective goods or parts thereof without cost to the purchaser to maintain its UP TIME offered in the beginning of purchase otherwise penal provisions shall apply if the supplier fails to keep up its UP TIME.

If the Supplier, having been notified, fails to remedy the defect(s) within 10 days, the Purchaser may proceed to take such remedial action as may be necessary, like forfeiture of EMD or recovery from security deposit the amount of loss (which will be decided by C.D.M.&P.H.O/C.M.O / S.D.M.O) incurred by the purchaser.

GOVERNING LANGUAGE:

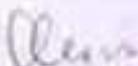
The contract shall be written in English language. English language version of the contract shall govern its interpretation. All correspondences and other documents pertaining to the contract which are exchanged by the parties shall be written in English.

DELIVERY OF DOCUMENT:

Four (4) copies of the Supplier invoice / bills showing purchase order number, good's description, quantity, unit price, total amount with stock entry certificate by the consignee.

Photocopy of the Insurance Certificate if any (The Original Certificate is to be given to the Consignee).

Attested Photocopy of Manufacturer's / Supplier's warranty certificate. (The original warranty certificate is to be submitted to the consignee at installation point).


COM & PHO-Cum DMD
Bangalore

42

INSURANCE:

For delivery of goods at site, the insurance shall be obtained by the Supplier(s) in an amount equal to 110% of the value of goods from "Warehouse" (final destination) on "All Risks" basis including natural calamities.

PACKAGING :

The supplier shall provide such packaging of the goods as is required to prevent their damage or deterioration during transit to their final destination. The packaging shall be sufficient to withstand without limitation rough handling during transit and exposure to extreme temperature, salt and precipitation during transit and upon storage. All primary packaging containers which come in contact with the item should strictly protect the quality and integrity of the Instruments & Equipments. Packing case size and weights should be taken into consideration, in case of remoteness of final destination and the absence of heavy handling facilities at all points intransit.

The packaging marking shall show the description of quantity of contents, the name of the consignee and address, the gross weight of the packages, the name of the supplier with a distinctive number of mark sufficient for purposes of identification. Each package shall contain:

- a. a packaging note quoting the name of the purchaser
- b. the number and date of order
- c. nomenclature of the goods
- d. Schedule of parts for each complete equipment giving part number with reference to assembly.
- e. Name & address of the consignee
- f. Name & address of the supplier.

TERMS OF CONTRACT:

The C.D.M.&P.H.O./C.M.O will be at liberty to terminate the contract either wholly or in part without assigning any reason. The tenderers will not entitled to any compensation whatsoever in such terminations.

PENALTIES :

If the successful tenderer fails to execute the agreement and / or deposit the required security within the time specified or withdraws his tender after acceptance of his tender owing to any other reasons, he is unable to undertake the contract, his contract will be cancelled and the Earnest Money Deposit deposited by him along with his tender shall stand forfeited and he will also be liable for all damages sustained by the C.D.M.&P.H.O./C.M.O by reasons of such breach, such as failure to supply / delayed supply including the liability to pay any difference between the prices accepted by him and those ultimately paid for the procurement of the articles concerned. Such damages shall be assessed by the C.D.M.&P.H.O./C.M.O whose decision is final & binding in the matter.

If any articles or things supplied by the tenderer have been partially or wholly used or consumed after supply and are subsequently found to be in bad order, unsound, inferior in quality or description or are otherwise faulty or unfit for consumption / use & rusted then the contract price or prices of such articles on full will be recovered from the tenderer, if payment had already been made to him or the tenderer will not be entitled to any payment for that item & no further order will be given to him. For infringement of the stipulations of the contract or for other justifiable reasons, the contract may be terminated by the C.D.M.&P.H.O./C.M.O and the tenderer shall be liable for all losses

Alvin
C.D.M. & P.H.O. - Cum - C.M.O.
Bhubaneswar

retained by the C.D.M.&P.H.O/C.M.O in consequence of the termination which may be recovered from the Security Deposit made by the tenderer or other money due or become due to him.

Supply of sub-standard items or non - performance of tender terms & conditions will disqualify a firm to participate in the tender for the next five years.

ARBITRATIONS :

In the event of any dispute out of the contract, such dispute should be subject to the Jurisdiction of the Civil Court, Dist. _____ or High Court, Odisha.

CHANGE OF TERMS AND CONDITIONS:

Any amendment to the terms & conditions and clauses of the agreement if required must be done in writing duly signed by the two parties.

IN WITNESS WHERE OF the parties herein to have set and subscribed their respective hands the day and year first herein above written.

Executed by Purchaser (s)/ Consignee

Executed by Supplier(s)

In presence of (Witness)

In presence of (Witness)

(Applicable only for Section B)

Alen
CDM & PHO-Cum-DMD
Balangir

WARRANTY / GUARANTEE /CMC UNDERTAKING
(To be submitted on Rs.50/- stamp paper)

Tender Ref.No. _____

Name of the equipment:

Date of Installation:

Name of the Consignee:

Name of the purchaser:

I /we/M/s _____ hereby declare that

- i. I / we do accept / Agree for the warranty / guarantee (2 years Warranty followed by 3 years CMC (Spares + Labour) as per this tender.
- ii. I / we will not charge / quote any extra price on account of the above said warranty /guarantee.
- iii. I / we do accept / agree to provide uptime guarantee 95% as per this tender.
- iv. The 2year comprehensive warranty is valid from dt. _____ to dt. _____.
- v. The 3 year CMC is valid from dt. _____ to dt. _____.

Date:

Place:

Signature of the competent authority

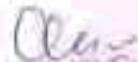
on behalf of the company /firm.

Seal of the firm.

N.B: 1. To be attested by Notary Public

2. Only to be submitted by the approved supplier / tenderer to the consignee and a copy to the purchaser before release of payment.

(Applicable only for Section B)


CDM & PFC Cum-DMD
Estangir

ANNEXURE - XII

UNDERTAKING

(To be submitted on Rs.50/- stamp paper)

Tender Ref. No. _____

Name of the
equipment:

Date of Installation:

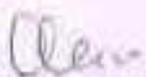
Name of the Consignee:

Name of the purchaser:

Sir,

I / we _____ hereby declare that

1. I/we am/are the manufacturers/authorized agents/distributors of _____
2. I / we do accept / agree for the all clauses including the warranty 2 years followed by 3 years CMC) and payment terms and conditions of thistender.
3. I / we do hereby confirm that the prices / rates quoted are fixed and are at par with the prices quoted by me / us to any other Govt. of India / Govt. of Odisha Hospitals / Medical Institutions. I / we also offer to supply the stores at the prices and rates not exceeding those mentioned in the price bid.
4. I / we agree to abide by my / our offer for a period of 365 days from the date of approval of thetender.
5. I / we have necessary infrastructure for the maintenance of the equipment and will provide all the accessories / spares as and when required.
6. I / we also declare that in case of change of Indian Agent or for any other change, merger, dissolution solvency etc. in the organization of our foreign principles, we would take care of the Guarantee / warranty / maintenance of the machinery / equipment and have provided written confirmation for thesame.


 COM & PHO-Crim-DMD
 Balangir

- 7. I / we shall provide assistance to the consignee in clearance and delivery of store at consignee's stores / premises.
- 8. The demurrage / storage charges, if any, payable to the customs department, due to non- receipt of required documents in time by the hospital / delay due to incorrect entries, mistakes to the documents etc. shall be borne by me /us.
- 9. I / we have carefully read and understood all the terms and conditions of the tender and shall abide bythem.
- 10. I / we undertake to get the equipment's repaired within 48 hours of receiving of the complaint from the indenting hospital / consignee failing which a penalty @ 1% of the cost may be recovered from the performance security before releasing the same to us after 5 years.

Signature of the witness
Name&address

Signature of the Tenderer
Name &address

Dated

Seal of the firm

N.B: 1. To be attested by Notary Public

2. Only to be submitted by the approved supplier / tenderer to the consignee and a copy to the purchaser before release of payment

3. Applicable only for section B.

Alvar
 CDM & PFI-Gum-DMD
 Bangalore

Financial Bid (Cover-B)

SECTION-(I)

List of Medical Consumables, Surgical Sutures & Others.

Sl. No.	Name of the Item	Specification	Unit/ Pucksize	Name of the Manufacturing Firm	Unit Rate (In Rs.)	GST (In Rs.)	Total Cost (In Rs.)
1	2	3	4	5	6	7	8
1	Black Braided Silk	Size:- 1-0, 1/2 Circle Round Bodied 30 mm needle (Sterilized) U.S.P. with CE certification	12 Foils/Box				
2	Black Braided Silk	Size:- 1, 1/2 Circle Round Bodied 30 mm needle (Sterilized) U.S.P. with CE certification	12 Foils/Box				-
3	Catgut Plain	Size:- 1-0, U.S.P. with CE certification	12 Foils/Box				
4	Catgut Plain	Size:- 2-0, U.S.P. with CE certification	12 Foils/Box				
5	Catgut Chromic	Size:- 1, (without needle) U.S.P. with CE certification	12 Foils/Box				
6	Catgut Chromic	Size:- 1-0, (without needle) U.S.P. with CE certification	12 Foils/Box				
7	Catgut Chromic Atraumatic	Size:- 1-0, 1/2 Circle Round Bodied (45mm needle) U.S.P. with CE certification	12 Foils/Box				
8	Catgut Chromic Atraumatic	Size:- 1, 1/2 Circle Round Bodied (45mm needle)(Heavy) U.S.P. with CE certification	12 Foils/Box				
9	Catgut Chromic Atraumatic	Size:- 1-0, 1/2 Circle Round Bodied (40mm needle) U.S.P. with CE certification	12 Foils/Box				
10	Catgut Chromic Atraumatic	Size:- 1-0, 1/2 Circle Round Bodied (30mm needle) U.S.P. with CE certification	12 Foils/Box				
11	Polypropylene	Size:- 1, 1/2 Circle Round Bodied 40mm (Heavy needle) U.S.P. with CE certification	12 Foils/Box				
12	Polypropylene	Size:- 1-0, 1/2 Circle Round Bodied 30mm (needle) U.S.P. with CE certification	12 Foils/Box				
13	Polyglactin	Size:- 1, 1/2 Circle Round Bodied 40mm (Heavy needle) U.S.P. with CE certification	12 Foils/Box				
14	Polyglactin	Size:- 1-0, 1/2 Circle Round Bodied 40mm (needle) U.S.P. with CE certification	12 Foils/Box				

15	Polypropylene	Size- 1, 1/2 Circle Round Bodied 30mm (Heavy needle) U.S.P, with CE certification	12 Foils/Box			
16	Black Braided Silk	Size- 2-0, 1 / 2 Circle Round Bodied 20 mm needle (Sterilized) U.S.P, with CE certification	12 Foils/Box			
17	Black Braided Silk	Size- 3-0, 1 / 2 Circle Round Bodied 20 mm needle (Sterilized) U.S.P, with CE certification	12 Foils/Box			
18	Polyglactin	Size- 3-0, 1/2 Circle Round Bodied 20mm (Needle) U.S.P, with CE certification	12 Foils/Box			
19	Polyglactin	Size- 4-0, 1/2 Circle Round Bodied 20mm (Needle) U.S.P, with CE certification	12 Foils/Box			
20	Disposable Syringes	BIS) needle Sterilised, Luer Mount, Non - toxic CGS 2CC as per Drugs & Cosmetics Act 1940, IS No. 12655 with CE certification	50 Pieces in one box			
21	Disposable Syringes	2 CC, With colour coded (as per 5 CC, with colour coded (as per BIS) needle Sterilised, Luer Mount, Non - toxic CGS 5CC as per Drugs & Cosmetics Act 1940, IS No. 12655 with CE Certification	50 Pieces In One Box			
22	Disposable sterilised Needles in blister pack	20 G - 24 G, IS No: 10654: 2002, ISO: 7864,1993 As Per Drugs & Cosmetics Act 1940 with CE certification	50 Pieces In One Box			
23	Disposable Insulin Syringes	40 Unit, With Needle, Sterilised Non -Toxic, Unit 40 with CE certification	50 Pieces In One Box			
24	Intra Cath	Adult,(two way)with closing Cover Type II Sterilised Size 18, 20,22 (Adult)with CE certification. Requirement Size 18 (40%), 20(40%), 22(20%)	50 Pieces In One Box			
25	Intra Cath	Child, (two way) with closing Cover Type II Sterilised Size 24 (Child) with CE certification	50 Pieces In One Box			
26	Disposable Scalp Vein Set	ETO Sterilise Pyrogen free short beveled siliconised needle size 20, 22, 24. Length 3/4 with CE certification.	50 Pieces In One Box			
27	Intravenous Set	Adult, With built in Airway moulded chamber and Needle, Sterile, Disposable, Non - Toxic, Non Pyrogenic, sterilised by ETO, 2.7 to 3.00 mm tube with fluid filter, non-kinkable tube, Length not less than 150 cms /IS No. 12655 (part-4 of2	50 Pieces In One Box			

28	Intravenous Set	Child, With built in Airway moulded chamber and Needle. Sterile, Disposable, Non - Toxic, Non Pyrogenic, sterilised by ETO, 2.7 to 3.00 mm tube with fluid filter, non-kinkable tube. Length not less than 150 cms /I.S No. 12655 (part-4 of 2	50 Pieces In One Box				
29	Blood Administration Set	Disposable Sterilised by ETO as per Drugs and Cosmetics Act-1940, I.S. No. 9824 (part 3 of 1996) with CE certification	Each				
31	Foleys Urinary Catheter	Size: 16 & 18, Silkolatex (Pre-sterile) 2 way sterile, Non - toxic with CE certification	Each				
32	Foleys Urinary Catheter	Size: 16 & 19, Silkolatex (Pre-sterile) 3 way sterile, Non - toxic with CE certification	Each				
33	Urinary Drainage Bag	Sterilised with non return valve and Drainage outlet with a capacity of 2000ml, with marking non toxic/pyrogen free, double seal, clinical grade PVC with CE certification will be preferred	Each				
34	Ryles Tube	Polythene (P.V.C) Pre-sterile (Length 105cm) Sterile Nontoxic, Pyrogen free, with Radio Opaque Line Assorted Sizes 7, 8,12,14, with CE certification will be preferred	Each				
35	Operation Gloves (Sterilised)	BIS specifications gloves, surgical rubber made of Hypoallergic latex,- 100%electronically tested, sterilised by Gamma Radiation /ETO, IS No.13422-92-with CE certification size 7"(50%), 7 1/2"(25%), 6 1/2"(25%)	in dozen/ pair				
37	Disposable Syringes	10 CC, with colour coded (as per BIS) needle Sterilised, Luer Mount, Non - toxic CGS 10CC as per Drugs & Cosmetics Act 1940, IS No. 12655 with CE Certification	50 pieces in one box				
38	Disposable Syringes	50 CC, with colour coded (as per BIS) needle Sterilised, Luer Mount, Non - toxic CGS 50CC as per Drugs & Cosmetics Act 1940, IS No. 12655 with CE	51 pieces in one box				
39	Disposable Examination Gloves	6", 6 1/2", 7", 7 1/2", Sterilised, small, medium & large, pre-powdered, with CE certified, surgical rubber made of Hypoallergic latex, 100% electronically tested sterilised by Gamma Radiation / ETO, White coloured, Min length-240mm	Packet of 100 Nos.				

40	Umbilical cord clamp / Vascular clamp (sterilised).	-	Each			
42	Infant mucous extractor	PVC Non-Toxic, Sterilised, Pyrogen free, Disposable with CE certification will be preferred	Each			
43	Triple (three) layer face mask	(9cm x 17cm approx.), nose clip adaptable. (Tie on mask of non- woven, hypoallergenic 3 ply construction with filter in between offering >99% standard with 4 tie strings.)	Each			
44	Mackintosh Sheet	Size 90cm wide, length 100cm, ISI Marked, I.S. No-4135-1974, Double colour, water proof. (The mackintosh should be of Grade A (i) as per IS specification 4135 (1974, it should have 55% rubber and 35% polymer.)	Each Meter			
45	Suction catheter (Plain)	-	Each			
46	Endotracheal Tube	-	Each			
47	Suction Tube	-	Each			
48	Sanitary Napkin	-	Each			
49	B.P. Blade	Size: 20,22,24	Each			
50	Spinal Needle	Size: 23	Each			
58	Ultrasound Jelly	5Kg/ Jar	Each Jar			
59	Plastic Apron	-	Each			
60	Oxygen Mask	Adult	Each			
61	Oxygen Mask	Child	Each			
62	Elastic Adhesive Bandage (I.V. Cannula Fixator)	-	Each			
63	Sterilize surgical suture Black Braided Silk	size-1-0, Length 2x75cm. (precut and pre sterilized) U.S.P, with CE Certification	Each			
64	Sterilize surgical suture Black Braided Silk	size-1 Length 2x75cm. (precut and pre sterilized) U.S.P, with CE Certification	Each			
65	Sterilize surgical suture Black Braided Silk	size-1 Length 2x76cm. (precut and pre sterilized) U.S.P, with CE Certification	Each			
66	Hot Water Bag	-	Each			
67	Surgical Blade	Size-11	Each			
68	Surgical Blade	Size-15	Each			
69	Suture Prolone	3.0 for hand circle/curve cutting needle	Each			
70	Suture Prolone	2.0 for hand circle/curve cutting needle	Each			
71	Suture Prolone	4.0 for hand circle/curve cutting needle	Each			
72	POP Roll	10 CM	Each			
73	POP Roll	15 CM	Each			
74	Crape Bandage	7.5CM	Each			

75	Crape Bandage	BCM	Each			
76	Sterile Water for Injection 5ML/ Amp (Plastic container as per)	5 MI	Each			
77	Hot water bag		Each			
78	Ice Pac		Each			
79	Finger stalls-different size- 5,5,5,6,6,5,7,7,5,8		Each			
80	Air rings		Each			
81	Mucus Sucker		Each			
82	Nipple shield		Each			
83	Gastric Lavage tube		Each			

LIST OF LAB. CHEMICALS & LAB. CONSUMABLES

Sl No.	Name of the Item	Unit / Packsize	Name of the Manufacturing Firm	Unit Rate (In Rs.)	GST (In Rs.)	Total Cost (In Rs.)
1	Benedic Solution (500ml Bott)	Each				
2	N/10 Hydrochloride Acid (500ml/ Bott)	Each				
3	Acetic Acid Glacial (500 ml/ Bott)	Each				
4	Methylene Blue (125ml/ Bott)	Each				
5	Haematoxylin Solution (125ml/ Bott)	Each				
6	Hydrogen Peroxide (500 ml)	Each				
7	Sulfer Powder 500Gm	Each				
8	Foucher's Regant 100MI	Each				
9	Carbolic Acid	Each				
10	Liquid Paraffin (Thick)	Each				
11	Sodium Fluoride Powder (500 gm)	Each				
12	E.D.T.A. Powder (500 gm)	Each				
13	Barium Chloride (500gm)	Each				
14	Blood Collecting Container (5 MI)	Each				
15	Eosin Powder (25gm/Bott)	Each				
16	Mantoux Test (10 T.U.)	Each				
17	Sulfuric Acid (500 ml)	Each				
18	Benzedine Powder	Each				
19	Cedar Wood Oil	Each				
20	Disposable Spirit Swab	Each				
21	Anisole Oil 500MI	Each				
22	Sodium Hypochloride Solution (2%) 70% Alcohol Solution	Each				
23	Enzymatic Cleaner	Each				
24	Diluent 2000MI for CBC Test	Each				
25	Lysol 1000MI for CBC Test	Each				
26	NS I Reagents	Each				
27	Basic Fuchsin Powder 25Gm	Each				
28	Phenol 50MI	Each				
29	Ethanol 500MI	Each				
31	Oxalic Acid 500MI	Each				
32	Auramine O	Each				
33	Acetone Alcohol	Each				
34	Saffranine	Each				
35	Formaldehyde Free surface. Instrument.	Each				

52

	environment disinfectant Fogging)			
36	Highly concentrated cleansing agent for medical instruments, endoscopes.	Each		
37	Antimicrobial Hand & Skin Cleansing Lotion	Each		
38	Surgical Scrub for Hand & Body wash	Each		
39	Ethanol based Hand, skin Rub (disinfectant)	Each		
40	Rapid Spray Disinfectant for Medical devices (Electronic) on all surfaces.	Each		
41	Ultra Sound Jelly 5 Liter Jar	Each		
42	O.T. Reagent 500MI Bottle	Each		
43	Eosin Yellow (25Gm Bottle)	Each		
44	Hydrochloric Acid (500MI Bottle)	Each		
45	Hematology Test Reagents for Automated Hematology Analyser	Each		
46	Sulpholyser 5000MI	Each		
47	Stomatolyser 5000MI	Each		
48	Coombs Reagent (Direct & Indirect) (AHG Anti C3d monoclonal) 5MI	Each		
49	Occult Blood	Each		
50	PT Reagents (Prothombin Time)	Each		
51	WBC Diluting Fluid (TLC)	Each		
52	Total Eosinophil Count Fluid	Each		
53	RBC Diluting Fluid (Total Blood Cell Count)	Each		
54	Platelet diluting Fluid (Platelet Count)	Each		
55	Distil Water	Each		
56	JSB Stain-I, JSB Stain-II (Malaria Parasite)	Each		
57	3.8% Sodium Citrate Solution (ESR)	Each		
58	Laboratory Stain (Giemsa Stain, Leishman Stain)	Each		
59	Giemsa Stain (250ml, 500ml, 1000ml)	Each		
60	Leishman Stain (500ml, 1000ml)	Each		
61	Immersion Oil (Microscope) 30ml	Each		
62	Microscopic Glass Slide	50 Pieces in One Box		
63	Sterile Disposable Blood Lancet (Pricking Needle)			
64	oint methy salicylate	each		
65	X-Ray Photo Film	50 Films Pkt		
66	X-Ray Photo Film	50 Films Pkt		
67	X-Ray Photo Film	50 Films Pkt		
68	X-Ray Photo Film	50 Films Pkt		
69	Dental intra oral X-Ray films	1 Pkt		
70	X-Ray Developer	Each Pkt.		
71	X-Ray Fixer	Each Pkt.		
72	X-Ray Cassette with intensifying Screen X-Ray Cassette with	Each		
73	intensifying Screen	Each		
74	X-Ray Cassette with intensifying Screen	Each		
75	X-Ray Cassette with intensifying Screen	Each		
76	Hanger Channel Type	Each		
77	Hanger Channel Type	Each		
78	Hanger Channel Type	Each		
79	Hanger Channel Type	Each		
80	Cups for X-Ray Films	Each		
81	Stainless Steel Tank	Each		
82	Lead Apron	Each		
83	X-Ray View Box	Each		
84	ECC Paper	Each		
85	H ₂ S strips test bottles for water testing	Each		

Rapid Kits:

Sl No.	Name of the Item	Specification	Unit / Packsize	Name of the Manufacturing Firm	Unit Rate (In Rs.)	GST (In Rs.)	Total Cost (In Rs.)
1	2	3	4	5	6	7	8
1	HIV Rapid 100unit,50unit,10 unit	as per technical specification	Each				
2	Rheumatoid Factor (Rh Typing)	as per technical specification	Each				
3	RPR Card (Syphilis)	as per technical specification	Each				
4	ASO	as per technical specification	Each				
5	HbsAg (Rapid)	as per technical specification	Each				
7	Uri-Stick	as per technical specification	Each				
8	Pregnancy Kit	as per technical specification	Each				
9	Widal Kit	as per technical specification	Each				
10	Malaria Rapid	as per technical specification	Each				
11	Dengue	as per technical specification	Each				
12	Toxoplasma (Rapid)	as per technical specification	Each				
13	Hepatitis B Card Test	as per technical specification	Each				
14	Hepatitis C Card Test	as per technical specification	Each				
15	Troponin-I	as per technical specification	Each				
16	H2S Strip	as per technical specification	Each				
17	V.D.R.L. Test Kit (50 test Strips)	as per technical specification	Each				
19	C-Reactive Protein (CRP)Test Kit	as per technical specification	Each				
20	H-S Test Kit	as per technical specification	Each				
21	HaemoglobinMetre	as per technical specification	Each				
22	Troponin-I (Card Test)	as per technical specification	Each				
23	URINE Complete rapid test reagent strips	as per technical specification	Each				

BIOCHEMICAL REAGENTS (SEMI AUTO & FULLY AUTO ANALYZER)

Sl No.	Name of the Item	Specification	Unit / Packsize	Name of the Manufacturing Firm	Unit Rate (In Rs.)	GST (In Rs.)	Total Cost (In Rs.)
1	2	3	4	5	6	7	8
1	Blood Sugar (Lab method)In ml1000 ,500ml	as per technical specification	Each				
2	Blood sugar (Glucometer Strip) In Unit 100,50,25	as per technical specification	Each				
3	Blood sugar (Glucometer Strip with Lancet) In Unit 15, 55, 30	as per technical specification	Each				
4	Blood ureaIn Unit1000, 500,200.	as per technical specification	Each				
5	S.Creatinin	as per technical specification	Each				
6	S.Bilirubin (D)&(T)	as per technical specification	Each				
7	SGOT	as per technical specification	Each				
8	SGPT	as per technical specification	Each				
9	S.Alkaline Phosphat	as per technical specification	Each				
10	Serum Total Protein	as per technical specification	Each				
11	Serum Albumin	as per technical specification	Each				
12	S. Calcium	as per technical specification	Each				
13	S. Potassium	as per technical specification	Each				
14	S. Sodium	as per technical specification	Each				
15	S. LDH	as per technical specification	Each				
16	S. Amylase	as per technical specification	Each				
17	S. Uric Acid	as per technical specification	Each				
18	S. Cholesterol	as per technical specification	Each				
19	S. Triglyceride	as per technical specification	Each				
20	S. VLDL	as per technical specification	Each				

Clear

21	S. HDL	as per technical specification	Each				
22	Glucose Kit (1000ml Kit) (GOD/POD Method)	as per technical specification	Each				
23	Haemoglobin Metre shali- s Method	as per technical specification	Each				

Blood Grouping (ABO-RH typing)

Sl No.	Name of the Item	Specification	Unit / Packsize	Name of the Manufacturing Firm	Unit Rate (In Rs.)	GST (In Rs.)	Total Cost (In Rs.)
1	ANTI-A	As per specification					
2	ANTI-B	As per specification					
3	ANTI-A,B	As per specification					
4	ANTI-D	As per specification					
5	ANTI-H	As per specification					
6	ANTI-AI	As per specification					
7	Albumin for Grouping & Cross matching	As per specification					
8	Antigen For Red Cell Panels	As per specification					
9	ANTI-A	As per specification					
10	ANTI-B	As per specification					
11	ANTI-A,B	As per specification					

Lab Consumables:

Sl No.	Name of the Item	Unit / Packsize	Name of the Manufacturing Firm	Unit Rate (In Rs.)	GST (In Rs.)	Total Cost (In Rs.)
1	2	4	5	6	7	8
1	Glass Slide	Each				
2	Micro Tips (Yellow/ Blue)	Each				
3	Urine Collection bottle	Each				
4	NVEDTA K3 2ml Sample Tube	Each				
5	NVEDTA K2 2ml	Each				
6	Plain Vial	Each				
7	Test Tube (Big)	Each				
8	Test Tube (Small)	Each				
9	Test Tube Stand	Each				
10	Test tube holder	Each				
11	Clotting Vial	Each				
12	ESR Stand	Each				
13	ESR Tube	Each				
14	Micro Pipette(10-200)	Each				
15	Micro Pipette(5-50)	Each				
16	Micro Pipette(10-100)	Each				
17	Micro Pipette(100-1000)	Each				
18	Tissue paper roll 3' WIDTH	Each				
19	Fluoride vial	Each				
20	Spirit Lamp	Each				

21	Cover Glass (Square)	Each			
22	Cover Glass (Circular)	Each			
23	Centry Fuse Tube (8 Tube)	Each			
24	Centry Fuse Tube (16 Tube)	Each			
	Haemoglobin Tube	Each			
26	Haemoglobin Pipet	Each			
27	Haemocyto Pipet	Each			
28	G Pipette 5 ml.	Each			
29	G Pipette 1 ml.	Each			
30	G Pipette 0.1 ml.	Each			
31	G Pipette 10 ml.	Each			
32	G Pipette 2 ml.	Each			
33	Glass Rod (24")	Each			
34	Dropping Bottle 100ml	Each			
35	Glass Marking Pencil (Red)	Each			
36	Glass Marking Pencil (White) Rubber Test	Each			
37	Timer (0-60 Min)	Each			
38	Antigen Rack	Each			
39	Torniquit	Each			
40	Lens Cleaning Tissue (100 Books/ Pkt) Glass Beaker (500ml) Size: 4"x 6"	Each			
41	Binocular Microscope Bulb	Each			
42	Filter Paper (Round shaped pockets) Lifibouy Soap (70gm)	Each			
43	litmus paper	Each			
44	Talquist Paper	Each			
45	Clot activator Test Tube	Each			
46	Hypodermic Needle (Size- 23) Mask	Each			
47	Test Tube washing Brush	Each			
48	High grade glass distilled water(15 Liters) Glass tubes or Deep well plate for dilution of samples graduated cylinder Conical Flask (500ml)	Each			
49	Graduated Measuring Cylinder (100ml) Plastic Jar 500ml	Each			
50	Diamond Marker Pencil To Mark On Microscope Glass Slides, 6" Holder With Artificial Diamond (Hard Stone) Embedded	Each			
51	Falcon Tube / Universal Tube with Gradation Mark Plastic Bottle 1.5 Liter	Each			
52	Sputum Container	Each			
53	Autoclave water sample Bottle 250ml Bottle Contain Tipped Swabs	Each			
54	Rubber / Plastic Sheet 1 Meter Test Tube Rack Clips for X-Ray Films	Each			
55	Lead Apron	Each			
56	Hanger (Channel Type) Size 15"x12"	Each			
57	Hanger (Channel Type) Size 12"x12"	Each			
58	Hanger (Channel Type) Size 10"x12"	Each			
59	Hanger (Channel Type) Size 8"x10"	Each			
60	Specimen glasses	Each			
61	Hemoglobin Estimation	Each			
62	Total Leukocytes counts	Each			
63	Malaria parasite	Each			

56

64	E.S.R.(Erythrocyte Sedimentation Rate);	Each				
----	---	------	--	--	--	--

Dr. S. S. S. S.
CGM S. P. H. O. - Gum - DMD
Balangir

SECTION-(II)

Medical Instruments

Sl No.	Name of the Item	Unit / Packsize	Name of the Manufacturing Firm	Unit Rate (In Rs.)	GST (In Rs.)	Total Cost (In Rs.)
1	Needle Holder (with Tungsten Carbide coated)					
2	Scissor Tissue Cutting/Stainless Steels, Curved.					
3	Scissors Cutting Scissor (Stainless steels, 4.5")					
4	Tailoring Scissor (Size: 9", 10", 11")					
5	Devoirs Retractor (Bladder/Abdominal)					
6	Doyens Retractor (Bladder/Abdominal)					
7	Allie's Forceps (Size 6")					
8	Ventus Suction for NBB Suction during Caesarean					
14	Tooth dissecting forceps					
15	Galipot samll 6/3 bowl					
16	Ringle forceps					
17	Tounge depressor					
18	Nasal preng					
19	Cheate forcep					
20	Large specillum cosco					
21	Large specillum sims					
22	Medium specillum cosco					
23	Medium specillum sims					
24	Epitotomy scissor					
25	Sponge holding forcep 8.in					
26	Sponge holding forcep 10.in					
27	Sponge holding forcep 12. in					
28	Scissor dissecting					
29	Scissor					
30	Vaginal wall retractor posterior					
31	Mosquito arty forceps cur 12 cm					
32	Dissecting forceps (toothed) (SS)					
33	Dissecting forceps (Non toothed)(SS)					
34	Scissor (Surgical-B") (SS)					
35	Mayo's cutting Scissors straight (SS)					
36	Bandage cutting scissors (SS)					
37	Biopsy forceps (SS)					
38	Liver biopsy needle					
39	Groove director with probe					
40	Aural Speculum					
41	Bladder sound					
42	Nasal packing forceps (SS)					
43	Ear irrigation syringe					
44	Laryngoscope (big)					

45	Ophthalmoscope				
46	Head mirror				
47	Male urethral dilator				
48	Trocar and cannula for abdominal paracentesis				
49	Biopsy needle- Adult & child				
50	Sternal puncture needle				
51	Needle holder 6"				
52	Anterior Vaginal Wall Retractor				
53	Allis Forcep				
54	Artery Forcep				
55	Bed Pan (S.S) Filter material stainless steel, lid covered				
56	Basin Assorted (S.S)				
57	Bowl for Antiseptic Lotion (stainless steel)				
58	Bucket & Kelly's Pad • washable and sterilizable • stainless finish • smooth texture • fabricated using top quality rubber				
59	Delivery Tray In case of Emergency				
60	Kidney Tray Assorted 6"				
61	Kidney Tray Assorted 8"				
62	Kidney Tray Assorted 10"				
63	Kidney Tray Assorted 12"				
64	Instrument Tray Assorted				
65	Examination Tray/Instrument Tray				
66	Emergency Drug Tray				
67	Episiotomy Scissor				
68	Foeto Scope				
69	Kelly's Pad				
70	Iyers Spatula				
71	Large Speculum Casco				
72	MVA Aspiration Syringe (60 ml)				
73	Needle Holder				
74	Sponge Holding Forcep				
75	Sponge Holder				
76	Vaginal Speculum				
77	Speculum				
78	Speculum (Large)				
79	Sims Speculum				
80	Scalpel Cutter				
81	Kelly's Pad				
82	Tongue Depressor (non-magnetic)				
83	Tongue Depressor				
84	Uterine Sound 12.5", blunt tip with thumb grip, file carburettor with graduation				
85	Elevator				
86	luxator				
87	Straight hand piece				
88	Contracte angle hand piece				
89	Instrument kit and cassette				
90	Light case and machine unit				
91	Physix forcep				
92	Extraction forcep				
93	Endo meter				
94	Bur set				

95	Suction Tip					
96	Arch bar					
97	Arch wire					
98	Pulp Devitalizer					
99	Impression Tray					
100	Caract surgery set					
101	Lens dialor					
102	M C person forcep					
103	capsula forcep					
104	Simco canula					
105	Corneal scissors					
106	Conjunctival scissors					
107	Lens holding forcep					
108	Lens holding forcep					
109	CNC tray with torch ,hammer etc					
110	KELLYS FORCEPS					
111	Scalpel holder with blade					
112	Surgical Instruments					
113	Dressing Drum with cover 6.945 litres stainless steel					
114	Tray instrument/Dressing with cover 310 x 195x63mm SS.					
115	Basin deep (capacity 6 litre)					

EQUIPMENTS							
Sl No.	Name of the Item	SPECIFICATION	Unit / Packsize	Name of the Manuf acturing Firm	Unit Rate (In Rs.)	GST (In Rs.)	Total Cost (In Rs.)
1	A scan biometer	as per technical specification	Each				
2	A scan tonometer	as per technical specification	Each				
3	Motorised table	as per technical specification	Each				
4	Ent micro scope	as per technical specification	Each				
5	Examination Lamp	as per technical specification	Each				
6	Autoclave	as per technical specification	Each				
7	Sphygmomanometer (anaroid)	as per technical specification	Each				
8	Sphygmomanometer (Digital)	as per technical specification	Each				
9	Stadio Meter (Height)	as per technical specification	Each				
10	Stetho Scope	as per technical specification	Each				
11	Adult Weighing Scale	as per technical specification	Each				
12	Smoke Analyzer Breath	as per technical specification	Each				
13	Carbon Monoxide	as per technical specification	Each				
14	Portable Spiro meter	as per technical specification	Each				

15	Multi Para Monitor (7 Para)	as per technical specification	Each				
16	Patient Examination Stool (Hydraulic)	as per technical specification	Each				
17	Bin Feedback Machine	as per technical specification	Each				
18	Evortion Therapy	as per technical specification	Each				
19	Sex Therapy	as per technical specification	Each				
20	Electro Sleep	as per technical specification	Each				
21	Elevator	as per technical specification	Each				
22	luxator	as per technical specification	Each				
23	Straight hand piece	as per technical specification	Each				
24	Contrace angle hand piece	as per technical specification	Each				
25	Stretcher	as per technical specification	Each				
26	Bed Head Ticker Holder	as per technical specification	Each				
27	Suction Machine (Electrical)	as per technical specification	Each				
28	Auto Analyser	as per technical specification	Each				
29	Foot Steps	as per technical specification	Each				
30	Oxygen Concentrator	as per technical specification	Each				
32	Defibrillator	as per technical specification	Each				
33	B.P. Apparatus (Aneroid)	as per technical specification	Each				
34	B.P. Apparatus (Digital)	as per technical specification	Each				
35	Saline Stand	as per technical specification	Each				
36	X-Ray View Box	as per technical specification	Each				
37	Instrument Steriliser Electrical	as per technical specification	Each				
38	Infantometer	conformity to infantometer as per icds standards precision for infantometer (cm): ± 0.1 cm accuracy for infantometer (cm): ± 0.1 cm warranty in years-1	Each				
40	Nebuliser	as per technical specification	Each				
41	Infant laryngoscope	as per technical specification	Each				
42	Endotracheal Tube Size: 2.5, 3.0, 3.5	as per technical specification	Each				
44	Pulse Oxymeter	as per technical specification	Each				
45	Radiant Warmer	as per technical specification	Each				
46	Phototherapy (double Surface)	as per technical specification	Each				

48	Ultra Sound Machine With Color Doppler	as per technical specification	Each				
50	Binoocular LED Fluorescence Microscope	as per technical specification	Each				
52	Ambu Bag	as per technical specification	Each				
53	Stetho Scope (Paediatric)	as per technical specification	Each				
54	Section Machine (Foot Operated)	as per technical specification	Each				
56	Haemoglobin Meter (Salt's)	as per technical specification	Each				
58	Shoulder Roll	as per technical specification	Each				
59	Laryngoscope Paediatric	as per technical specification	Each				
60	Digital Room Thermometer	as per technical specification	Each				
61	Fully Automated Auto-Analyser	as per technical specification	Each				
63	Hot Air Oven	as per technical specification	Each				
64	Lab. Incubator	as per technical specification	Each				
65	Distilled Water Plant	as per technical specification	Each				
66	Electric Centrifuge table top	as per technical specification	Each				
67	Cell Counter Manual (NC)	as per technical specification	Each				
68	Hot Plates	as per technical specification	Each				
69	Rotor Shaker	as per technical specification	Each				
70	Counting Chamber	as per technical specification	Each				
71	(TCDC count Apparatus)	as per technical specification	Each				
72	PH Meter	as per technical specification	Each				
72	Colorimeter	as per technical specification	Each				
73	Glucometer	as per technical specification	Each				
74	PFT Machine	as per technical specification	Each				
75	Electrolyte Analyser	as per technical specification	Each				
76	Fine Needle Aspiration	as per technical specification	Each				
77	Cytology	as per technical specification	Each				
78	Measuring Cylinder	as per technical specification	Each				
79	Stirrer with stainless steel	as per technical specification	Each				
80	stirring rod	as per technical specification	Each				
81	Digital electronic	as per technical specification	Each				
82	temperature controller	as per technical specification	Each				

83	Stool Transport Carrier	as per technical specification	Each				
84	Table Top Centrifuge	as per technical specification	Each				
85	Smear Transporting Box	as per technical specification	Each				
86	Eye bath cup	as per technical specification	Each				
87	Onnce Glass	as per technical specification	Each				
88	Drum Glass	as per technical specification	Each				
89	Rectal thermometer	as per technical specification	Each				
90	Bath thermometer	as per technical specification	Each				
91	Room Thermometer	as per technical specification	Each				
92	Lotion thermometer	as per technical specification	Each				
93	Pulse oxy meter	as per technical specification	Each				
94	Urinometer	as per technical specification	Each				
95	Lactometer	as per technical specification	Each				
96	Salter weighing scale Capacity-25Kg Material-Metal	as per technical specification	Each				
99	Slow Sand Filter Model Purification for treating raw water	as per technical specification	Each				
101	Defibrillator	as per technical specification	Each				
102	Multi-Channel MGmeter	as per technical specification	Each				
103	Non Invasive Ventilator	as per technical specification	Each				
104	Shortwave Diathermy	as per technical specification	Each				
105	Ultrasound Therapy	as per technical specification	Each				
106	Cervical traction(intermittent)	as per technical specification	Each				
107	Pelvic traction(intermittent)	as per technical specification	Each				
108	Tran electric Nerve Stimulator(TENS)	as per technical specification	Each				
109	Adjustable Walker	as per technical specification	Each				
110	Uterine Sound Graduated	as per technical specification	Each				
111	Foetal Doppler	as per technical specification	Each				
112	Oxygen Cylinder with trolley	as per technical specification	Each				
113	Stadiometer	as per technical specification	Each				
114	Hemoglobin meter.Digital (With Hemoglobin strips)	as per technical specification	Each				

115	TRUE LAB (Real-Time quantitative micro PCR Analyzer (Single Channel)) With Auto-Specifications-Extraction Device	as per technical specification	Each				
116	TRUE LAB (Real-Time quantitative micro PCR Analyzer (Two Channel)) With Auto-Specifications-Extraction Device	as per technical specification	Each				
117	TRUE LAB (Real-Time quantitative micro PCR Analyzer (Four Channel)) With Auto-Specifications-Extraction Device	as per technical specification	Each				
118	TRUE NAT (Chip-based Real Time PCR test for <i>Mycobacterium tuberculosis</i>) With Sample pre-treatment pack for MTB samples	as per technical specification	Each				
119	TRUE NAT (Chip-Based Real time PCR test for Rifampicin resistant <i>Mycobacterium tuberculosis</i>)with Sample pre-treatment pack for MTB samples	as per technical specification	Each				
120	Dental X-Ray (Tube Head)	as per technical specification	Each				
121	Dental X-Ray (Wall Model Scissor Arm)	as per technical specification	Each				
121	Nebulizer	as per technical specification	Each				
122	Lab. Incubator	as per technical specification	Each				
123	Sanitary Napkin Incinerator	as per technical specification	Each				


 CDM & PHO-Cum-DMD
 Balangir

FURNITURES

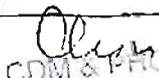
1	Semi ICU Bed	as per technical specification	Each				
2	Bed Side Locker	as per technical specification	Each				
3	Patient Examination Stool (Hydraulic)	as per technical specification	Each				
4	Patient Examination Couch	as per technical specification	Each				
6	Bed Head Ticker Holder	as per technical specification	Each				
7	Foot Steps	as per technical specification	Each				
8	Saline Stand	as per technical specification	Each				
9	Linen almirah	as per technical specification	Each				
10	Steel almirah	as per technical specification	Each				
11	Shoe Rack	as per technical specification	Each				
12	Hospital Bed	as per technical specification	Each				
13	Recline Chair	as per technical specification	Each				
14	Wheel chair	as per technical specification	Each				
15	Hand dyer	as per technical specification	Each				
16	Paediatric Bed	as per technical specification	Each				
17	Water Bed	as per technical specification	Each				
18	Chairs for patient waiting area	as per technical specification	Each				
19	Examination Table	as per technical specification	Each				
20	Janani Stretcher	as per technical specification	Each				
21	Bed Side Screen	as per technical specification	Each				
22	D.G Set (10 KVA/25KVA)	as per technical specification	Each				


 CDM & PPO-Cum-DMD
 Balangir

MANIKINS & MODELS FOR NURSING TRAINING					
1	Advanced Nursing Training Manikin	as per technical specification	Each		
2	Full functional Elderly Nursing Manikin	as per technical specification	Each		
3	Adult human Articulated skeleton with hanging facilities in a glass cupboard with locking facility	as per technical specification	Each		
4	Full set of dis-articulated human skeleton models	as per technical specification	Each		
5	Human Torso	as per technical specification	Each		
6	Heart with detachable parts on a stand	as per technical specification	Each		
7	Eye with different sections	as per technical specification	Each		
8	Ear with different sections	as per technical specification	Each		
9	Human Brain with Spinal Cord	as per technical specification	Each		
10	Lungs and Trachea	as per technical specification	Each		
11	Larynx	as per technical specification	Each		
12	Female Reproductive System	as per technical specification	Each		
13	Male reproductive System	as per technical specification	Each		
14	Urinary System	as per technical specification	Each		
15	Joint and Ligaments	as per technical specification	Each		
16	Wrist	as per technical specification	Each		
17	Elbow	as per technical specification	Each		
18	Shoulder	as per technical specification	Each		
19	Ankle	as per technical specification	Each		
20	Knee	as per technical specification	Each		
21	Hip	as per technical specification	Each		
22	Teeth	as per technical specification	Each		


 CDM & PHO-Cum-DMO
 Balangir

Physiotherapy Equipment							
1	Activity Table/Modified Wheel chair (Paediatric)	as per technical specification	Each				
2	Rowing	as per technical specification	Each				
3	Parralal Bars (Paediatric)	as per technical specification	Each				
4	Weight Cuffs(Paediatric)	as per technical specification	Each				
5	Weight & Puller Exercise(Paediatric)	as per technical specification	Each				
6	Ankle Exerciser(Paediatric)	as per technical specification	Each				
7	Shoulder Wheel (Paediatric)	as per technical specification	Each				
8	Fore-Arm-Exerciser (Paediatric)	as per technical specification	Each				
9	Treadmill(Paediatric)	as per technical specification	Each				
10	Tilt Table (Paediatric)	as per technical specification	Each				
11	Multi Gym(Paediatric)	as per technical specification	Each				
12	Wrist Roll (Paediatric)	as per technical specification	Each				
13	Motorized Treadmill	as per technical specification	Each				
14	Ultrasonic Therapy Unit with Trolley	as per technical specification	Each				
15	Infrared Lamp	as per technical specification	Each				
16	Treatment wooden plinth with cushion pad	as per technical specification	Each				
17	Grip Exerciser (Paediatric)	as per technical specification	Each				
18	Floor Ladder (Paediatric)	as per technical specification	Each				
19	Wrist Circumductor (Paediatric)	as per technical specification					
20	Knee Hammer (Paediatric)	as per technical specification					
21	Depth Perception peg Board	as per technical specification					
22	Treatment Cuff (6x4x2.6x4x1)	as per technical specification					
23	Height Adjustable Walker and Roller	as per technical specification					
24	Standing Frame (Paediatric)	as per technical specification					
25	Nirrnals Hand table apparatus (Paediatric)	as per technical specification					
26	CP Chair (Paediatric)	as per technical specification					
27	Corner Seat (Paediatric)	as per technical specification					
28	Crawler (Paediatric)	as per technical specification					
29	Staircase (Paediatric)	as per technical specification					
30	Beach Ball with different sizes (Paediatric)	as per technical specification					


 CDM & PRO-Cum-DMD
 Balangir

31	Peanut Ball with different sizes	as per technical specification					
32	Electrical Stimulator	as per technical specification					
33	Therapeutic Ultrasound Machine(Paediatric Double Headed)	as per technical specification					
35	Phototherapy Unit	as per technical specification					
36	INTERFERENTIAL THERAPY	as per technical specification					
37	STATIC CYCLE	as per technical specification					
38	LONG WAVE DIATHERMY	as per technical specification					
39	TENS Machine	as per technical specification					
40	SHOULDER PULLEY EXERCISE	as per technical specification					
41	LASER THERAPY	as per technical specification					

Equipment/Instrument for NPHCE (Geriatric Clinic) AT BALANGIR

1	Defibrillator	as per technical specification					
2	Multi-Channel Monitor	as per technical specification					
3	Non Invasive Ventilator	as per technical specification					
4	Shortwave Diathermy	as per technical specification					
5	Ultrasound Therapy	as per technical specification					
6	Cervical traction(intermittent)	as per technical specification					
7	Pelvic traction(intermittent)	as per technical specification					
8	Trans electric Nerve Stimulator(TENS)	as per technical specification					
9	Adjustable Walker	as per technical specification					

Sensory Integration Equipments

1	Bolster Swing	as per technical specification					
2	Tyre tube swing	as per technical specification					
3	T Swing	as per technical specification					
4	Lycra swing and hammocks	as per technical specification					
5	Rope ladder swing	as per technical specification					
6	Ball Pool With Multi Colours Small ball	as per technical specification					
7	Tunnel	as per technical specification					
8	Bean bags	as per technical specification					

9	Wrapping in blankets: weighted blankets, towels	as per technical specification				
10	Sandwich activities ; between mats pillow, bean	as per technical specification				
11	Activities for Exploring :with sand, rice, beans, and other	as per technical specification				
12	Weighted Activities ; Weighted Vest, Ankle/wrist	as per technical specification				
13	Scooter board	as per technical specification				
14	Balance Bean	as per technical specification				
15	Thera Band	as per technical specification				
16	Sensory mats different textures (soft, rough)	as per technical specification				
17	Blocks, bolsters, small chairs	as per technical specification				
18	Tactile brushes	as per technical specification				
19	Playdoh, funny, foam, textured balls, tactile walls boards and books, textured puzzles, finger paints (regular, or using pudding) Using various Chart paper, Pencil, Gum, Crayon, gripper, craser, scissor, note books	as per technical specification				
20	Form board (Alphabets, numbers, Colours, shapes, body parts, size, flash cards (animals and fruits)) Form board (Alphabets, numbers, Colours, shapes, body parts, size, flash cards (animals and fruits)) Beads with lace, ring stand, button and UN buttons, shirts, shoe lacing board, Toys	as per technical specification				
21	LED mirror ball, pin spot and mirror ball, mirror ball motor mains, Fire ball, sound activated light, Bubble tube (with LED light and vibrator) and speakers connected to the sound	as per technical specification				
24	Toy Room - Wall mounted rack & Toys with different texture, colour for various age groups (6 months--18 years)	as per technical specification				
25	Torch	as per technical specification				
26	Mouth Gag	as per technical specification				
27	Tuning fork	as per technical specification				
28	Nasal Speculum (St. Claire's)*	as per technical specification				
29	Ear Speculum - metallic, dull finish	as per technical specification				
30	Jobson-Horne probe	as per technical specification				
31	Otoscope	as per technical specification				

Prosthetics & Orthotic aids for children identified for Therapeutic Intervention at DEIC						
1	Arch Support(Unilateral)	as per technical specification				
2	Medial/Lateral Wedge	as per technical specification				
3	Flat feet/CTEV shoes Pair(Leather)	as per technical specification				
4	D.B. Splint with/without shoe	as per technical specification				
5	AFO Conventional(one side)	as per technical specification				
6	AFO Conventional(Bilateral)	as per technical specification				
7	Knee orthosis Polypropylene(Valgum/Varus, Immobilizer etc)	as per technical specification				
9	KAFO conventional with shoe (One side)	as per technical specification				
10	Bilateral KAFO	as per technical specification				
11	Conventional with shoe	as per technical specification				
12	KAFO conventional with shoe (One side)	as per technical specification				
13	HKAFO Conventional with shoes	as per technical specification				
14	Bilateral H KAFO	as per technical specification				
15	Conventional with shoe	as per technical specification				
16	HKAFO Polypropylene	as per technical specification				
17	Custom Module without	as per technical specification				
18	Pavlik Harness for CHD	as per technical specification				
19	SWASH Brace	as per technical specification				

CDM & PRO-Cum-DMD
Balangir

Sl No.	Name of the Item	Specification	Unit / Package	Name of the Manufacturing Firm	Unit Rate (In Rs.)	GST (In Rs.)	Total Cost (In Rs.)
1	VIA kit		Each				
	LED Focusing Torch	As Per Technical Specificati					
	Cusco's Speculum						
	Glass Slide						
	Examination Gloves						
	Bag for carrying above						
2	OVE Kit		Each				
	Angular Mirror	As Per Technical Specificati					
	Examination Gloves						
	LED Focusing Torch						
	Disposable Tongue						
	Bag for carrying above						
3	Cotton	100 grams per packet					
4	Gauze	Gauze most commonly used by doctors, hospitals 7.5 cm x 10 mtr. Rolled					
5	Autoclav	As Per Technical Specificati					
6	Examination Light	As Per Technical Specificati					
7	HBNC Kit		Each				
	Baby Weighing Scale	As Per Technical Specificati					
	Digital Thermometer						
	Digital Watch						
	HBNC Kit Bag						
8	Disposable Delivery Kit (ETOSterilised)	As Per Technical Specificati					
1	IUCD KIT	As Per Technical Specifications					
2	PPIUCD KIT						
3	MINILAP KIT						
4	NSV KIT						
IMMUNIZATION LOGISTICS							
1	AEFI KIT	As Per Technical Specifications					
2	ANAPHYLAXIS KIT	As Per Technical Specification					
3	Community Bag	As Per Technical Specification					

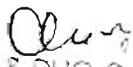

 CDM & PHO-Cum-DMD
 Balangit

SECTION -(II)

LIST OF BCL Items

Sl No.	Name of the Item	Specification	Unit / Packsize	Name of the Manufacturing Firm	Unit Rate (In Rs.)	GST (In Rs.)	Total Cost (In Rs.)
1	Towel (big)	Length 150, Breadth=70 Cm. Wt Minimum 500gm (Cotton Turkish White Double Side Stich)					
2	Towel (small)	Length 60cm, Breadth=40cm, Wt. Minimum 150gm (Cotton Turkish White Double Side Stich)					
3	Pillow (foam)	Length=65cm, Breadth=40cm, Foam Quality Should Confirm To IS7933:1975 (Reaffirmed 2003) Length=70cm Breadth=45cm) Excluding Border					
4	Pillow cover (cotton) white bleached	(White Bleached, All Side Zigzagstiching With Border Of 2.5cm In Each Side) Length=115cm Breadth=80cm (Bottle Green Colour, All Side Zigzagstiching With 4cm In Each Side, Velvete					
5	Blanket cotton for child	Border)					
6	Bed spreads	as per the specification					
7	Doctor's over coat	as per the specification					
8	Hospital worker coat	as per the specification					
9	Patient house coat (for females)	as per the specification					
10	Patients pyjama for male shirt	as per the specification					
11	Pereneal sheets for m	as per the specification					
12	Leggings	as per the specification					
13	Mats (nylon)	as per the specification					
14	Mackin tooth sheet (in meters)	as per the specification					
15	Blanket cotton for adult	Length=230cm Breadth=150cm (Bottle Green Colour, All Side Zigzagstiching With 4cm In Each Side, Velvete Border)					
16	Blanket cotton for pediatric	Length=115cm Breadth=80cm (Blue Colour, All Side Zigzagstiching With 4cm In Each Side, Velvete Border)					
17	Bed sheet (cotton) white/ seven colors bleached both side stitching	Length=230cm Breadth=150cm (Cotton, White Bleached, Both Side Stiching)					
18	Long cloth (green)	Breadth=89 Cm (Cotton For Making O.T. Gown, Apron, Towel Etc.)					
19	Durry	Size : Width 90cm X Length: 2 Meters					
20	O.t. towel big	Length=100cm, Breadth=89cm (Cotton Green, Both Side Stich)					
21	O.t. towel small	Length=100cm, Breadth=89cm (Cotton Green, Both Side Stich)					
22	Patna towel	LATEST SIZE (Lengthxwidth) (Cmxcm) 150X75 Construction/ Weave: Terry, Colour: Bleached White					

23	Mattress (adult)	(Rubberized Coir) (Size-75" X 36" X 3") With Rexine Cover				
24	Mattress (child)	(Rubberized Coir) (Size-68.58cm X 132.08cm X 3") With Rexine Cover				
25	Abdominal sheet	Length=100cm. Breadth=89cm (Cotton Green, Both Side Stitch)				
26	Mosquito net	AS PER SPECIFICATION				
27	Face mask cotton	Green Color, 100% Cotton / Micro Cotton Washable. Autoclavable				
28	Tetra for surgical procedure	100% Cotton Gauze . Absorbent And Autoclavable .Size 15 Inch * 15 Inch With Facility To Hang For Dying				
29	Perennial sheet for ot	As per the specification				
30	New born baby kit	As per the specification				
31	Disposable gown	As per the specification				
32	Disposable drawsheet	As per the specification				
33	Face mask cotton	As per the specification				
33	Table cloth	as per the specification				


 CDM & PHO-Cum-DMD
 Balangir

SECTION-(IV)

Materials For Bio-Medical Waste Management

Sl No.	Name of the Item	Specification	Unit / Packsize	Name of the Manufacturing Firm	Unit Rate (In Rs.)	GST (In Rs.)	Total Cost (In Rs.)
1	Waste Bin (Red, Blue, Black & Yellow)(Size: 30,40, 50 Liters with swing lid)	The Bin should have bio hazardsymbol with color waste logo. government of odisha supply. The manufacturer should be an ISO certified company with manufacturing licenses of color biomedical waste management bins.	Each				
2	WASTE BIN FRAME	(Red, Blue, Black & Yellow)(Size: 30,40, 50 Liters with swing lid) FOOT OPERATED					
3	White Jerri Can 5, 20 Liters	Puncture Proof Container	Each				
4	Disposable Polythene Bags (Red, Blue, Black & Yellow)	Bio degradable, with proper size as per the Bins (30 Liter)	Each Kg				
5	Needle Syringe Terminator (Electrical)	as per technical specification					
6	Sodium Hypochloride Solution -1%	5 Liter Jar	Each				
7	Sodium Hypochloride Solution (10%)	5 Liter Jar	Each				
8	Hub Cutter	as per technical specification	Each				
9	Rubber Gloves	as per technical specification	Each				
10	Gum Boot	as per technical specification	Each				
11	Wheeled disposal trolley	Manufacture to be an ISO/ CE certified.					
12	Wheel Barrow (Red, Blue, Black & Yellow)(Size: 50 Liters)	Manufacture to be an ISO/ CE certified <ul style="list-style-type: none"> - The frame of wheel borrow shall be properly barrow welded MS or MS pipe as required , - Workmen ship & finish :the frame of the wheel barrow shall be properly welded with smooth finish without sharp age. - The frame shall be painted with single coat of red oxide enamel & two coat of synthetic enamel paint. 					
13	protective apron	as per technical specification					
14	protective Mask	as per technical specification					
15	protective cap and goggles	as per technical specification					
16	Foot Operated Bucket (Size 5 Liter)	as per technical specification					
17	Zipper bag	each (Please mention size if any)					
18	MOP TROLLEY	3 BUCKETS					

ANNEXURE
(TECHINICAL SPECIFICATION)

SECTION-(I)

Health & Wellness Center

1. Hemoglobin Estimation:

Reagent/Chemicals:

- ❖ (N/10) Hydrochloride Solutions (HCL)
- ❖ Pack Size: 500ml/1000ml
- ❖ Packed in a narrow mouth polyethylene bottle.
- ❖ Manufacturer should be ISO 13485 certified
- ❖ Product should be CE certified as per IVD directive

2. Total Leukocytes counts-

Chemicals:

- ❖ WBC Diluting Fluid
- ❖ pH value within 2.00-2.40
- ❖ Concentration:
- ❖ Pack Size: 100ml/500ml
- ❖ Packed in a narrow mouth high density polyethylene bottle.
- ❖ Manufacturer should be ISO13485 certified
- ❖ Product should be CE certified as per IVD directive

3. Different Leucocytes Count

4. Malaria parasite:

1 JSB Stain-I

- i. Methylene Blue (Medicinal) : 0.5 gm
- ii. Sulphuric Acid (H2SO4) 1% : 3 c.c.
- iii. Potassium Dichromate (K2Cr2O7): 0.5 gm
- iv. Disodium Hydrogen Phosphate: 3.5 gm Dehydrate (Na2HPO4.2H2O)
- v. Distilled Water: 500 c.c.

2 JSB Stain-II

- i. Eosin Yellow (Water soluble): 1.0 gm
- ii. Distilled water: 500 c.c.

ii) **Packing:** Each bottle of JSB Stain-I & II will contain 125 ml of stain in a glass or plastic bottle.

- ❖ Manufacturer should be ISO13485 certified
- ❖ Product should be CE certified as per IVD directive

5. E.S.R(Erythrocyte Sedimentation Rate):

- ❖ 3.8% Sodium Citrate solution
 - ❖ PH vale lies between 7.8-8.0
 - ❖ Concentration : 3.70%- 3.90%
 - ❖ Pack Size: 100/500ml
 - ❖ Packed in a narrow mouth high density polyethylene bottle
 - ❖ Manufacturer should be ISO13485 certified
 - ❖ Product should be CE certified as per IVD directive

6. Distilled water.

Laboratory grade distlle water:
 0.1 micron filtered
 PH value :5-7.5
 Packed in transparent.

7. Blood Grouping (ABO-RH typing)

ANTI-A	Monoclonal IgM reagent for forward grouping	Anti A consists of blood grouping reagent for slide and tube tests. The reagent is murine monoclonal IgM for forward grouping. Ready to use solution containing IgM (murine monoclonal) class antibodies specific to the 'A' antigen on the R.B.C Specificity: ANTI-A-100% to A, and A antigens Pack Size: 5ml/10ml Unopened kit: 2-8OC Opened kit : 2-8OC Self-life: 24 months
ANTI-B	Monoclonal IgM reagent for forward grouping	Anti B consists of blood grouping reagent for slide and tube tests. The reagent is monoclonal IgM for forward grouping. Ready to use solution containing IgM (murine monoclonal) class antibodies specific to the 'B' antigen on the R.B.C Specificity: ANTI-B-100% to B antigens, negative reaction with Acquired B characteristics Pack Size: 5ml/10ml Unopened kit: 2-8OC Opened kit : 2-8OC Self-life: 24 months
ANTI-A,B	Monoclonal IgM reagent for forward grouping	Anti A,B consists of blood grouping reagent for slide and tube tests. The reagent is monoclonal IgM for forward grouping. Ready to use solution containing IgM (murine monoclonal) class antibodies specific to the 'A' and 'B' antigens on the R.B.C Specificity: ANTI-A,B-100% to A and B antigens, negative reaction with Acquired B characteristics Pack Size: 5ml/10ml Unopened kit: 2-8OC Opened kit : 2-8OC Self-life: 24 months
ANTI-D	Polyclonal IgG reagent for Rh (D) typing	Anti D (IgG) consists of blood grouping reagent for slide and tube tests. The reagent is monoclonal IgG for Rho (D) typing & Du testing. Ready to use solution containing IgG (human monoclonal) class antibodies specific to the 'D' antigen on the R.B.C Specificity: ANTI-D (IgG) - 100% to Rho(D) antigen Unopened kit: 2-8OC Opened kit : 2-8OC Self-life: 24 months
ANTI-H	Monoclonal IgM reagent for Rho (D) typing	Anti H (IgM) consists of blood grouping reagent for slide and modified tube tests. Used for recognition of the H antigen on human red blood cells. It is useful, especially for assessing the H secretor status of group 'O' individuals and also in differential grouping of A subgroup along with Anti- in A lectin. Ready to use solution containing IgM (human monoclonal) class antibodies Specificity: Negative reacting with 'O' phenotype Reactivity: Graded reactivity with different red cells, O>A >A β>B>A >A B Unopened kit: 2-8OC Opened kit : 2-8OC Self-life: 24 months
ANTI-A1	Monoclonal IgM reagent for Rho (D) typing	used for differentiation of A1 and A2 subgroups and can be used either for slide or tube test. Specificity: A1 antigen on human RBCs Unopened kit: 2-8OC Opened kit : 2-8OC Self-life: 24 months
Bovine		

Albumin for Grouping & Cross matching		Bovine Albumin is primarily used to enhance the reactivity of blood group antibodies, either in direct agglutination tests or indirect antiglobulin test. Pack sizes 5 ml/10ml dropper vial. Stability : at 2-80 C Self-life: 24 months. The reagent should contain 0.1% sodium azide as a preservative. protein concentration : Adjustable to 22% Adjustable pH of 7.1(± 0.1)
Antigen For Red Cell Panels	Used to detect expected ABO blood group antibodies in patient and donor samples.	High quality 3% & 5% Reagent Red Blood Cells. Four-vial set consisting of one vial each of A1, A2, B, and group O cells. Vial of 4x10ml
<ul style="list-style-type: none"> ❖ Manufacturer should be ISO13485 certified ❖ Product should be CE certified as per IVD directive 		

8. Total Eosinophil count: Absolute Eosinophil Count fluid, size: 100ml, stable at Room temperature.

9. Total red blood Cell Count: RBC diluting Fluid, Size: 100ml, stable at Room temperature.

10. Platelet Count: Platelet Diluting Fluid, 100ml, stable at Room Temperature.

11. Packed Cell Volume:

i. Graduated Wintrobe Tube. Length of 110 mm and has 100 markings, each at the interval of 1 mm. Internal diameter is 3 mm. It can hold about 3 ml of blood.

ii. Pasteur pipette with a rubber bulb and a sufficient length of capillary to reach the bottom of the Wintrobe tube.

❖ Manufacturer should be ISO13485 certified

❖ Product should be CE certified as per IVD directive

Packet of 10nos

12. OccultBlood: The FOB Rapid Test Device (Feces) is a rapid visual immunoassay for the qualitative presumptive detection of human hemoglobin in human fecal specimens. This kit is intended to be used as an aid in the diagnosis of lower gastrointestinal (g.i.) pathologies.

KIT COMPONENTS

- Individually packed test strips: Each strip contains colored conjugates and reactive reagents pre-speeded at the corresponding regions.
- Specimens' collection cards: For specimens collection use.
- Specimen's dilution tube with buffer: Each contains 2 ml of 0.1 M Phosphate buffered saline (PBS) and 0.02% sodium azide
- Storage Condition:
- Self-life:

Laboratory Stains

1. Giemsa Stain Solution: Pack size of 250ml/500ml/1000ml, Buffer solution of pH value lies (6.9-7.2, Self life minimum 24months.
2. Leishman : Pack size of 250ml/500ml/1000ml, Buffer solution pH value lies: 6.4-7.00, Self life minimum 12months.

13. Coombs Reagent (Direct&Indirect)

Kit for Anti human Globulin Serum with monoclonal Anti C3d for Direct and Indirect Coombs test;

- ❖ Ready to use reagent containing antibodies reactive with human complement component C3d.
- ❖ The anti-complement antibodies are IgM class monoclonal and they impart the required sensitivity.
- ❖ Pack Size: 5ml/10ml
- ❖ Self-life: One year
- ❖ Supplied with Coombs Control solution of 5ml pack

14. AHG Anti C3d monoclonal

1. Antisera must be appropriate for tube technique
2. Should give clear positive reactions with appropriately sensitized cells
3. Should give clear negative reactions with unsensitized cells
4. should not haemolyse the cells.
5. Should not produce rouleaux
6. Titre :
 - a. For polyspecific minimum 128 for IgG and minimum 4 for C3d,
 - b. for monospecific anti-IgG minimum 256

87 78

c. for monospecific Anti C3d minimum 16

7. Must be evaluated and approved by NIB and IVD (EC

Bio-chemical Reagents for in-vitro diagnostics in human samples for professional use only

Quality Standards and general description of the reagents packs

- All reagent kits should be liquid stable & ready to use.
- Reagent should be free from all carcinogenic & hazardous material.
- Reagent should be used for all open biochemistry analyzer systems (Both Semiautomatic & Fully automatic irrespective of make & model)
- Reagents must be approved by a reputed regulatory body like CE(IVD)/USFDA
- Manufacturer should be ISO13485 approved.
- The entire reagent should be DCGI approved.
- Calibrators traceable to Certified Reference Material (CRM)
- Standardization of reagent kits traceable to Standard Reference Material (SRM).
- Calibrators and Controls preferably of human matrix.
- Reagent methodology should be traceable to some reference method, e.g., IFCC, CDC, etc.
- Results should be correlated with Gold Standard Methods.
- Reagents CV% should be less than 4 – 5%.
- Reagents specificity should be within 90 – 100%.
- Purity of the reagent should be 98-99%
- Sensitivity mentioned should be excellent enough to ensure measurement of very low analyte present in the sample.
- Reagents should ensure wide linearity for proper interpretation.
- All reagents should be with suitable control
- The reagents should not be older than one sixth (1/6th) of its shelf life from the date of manufacture.

Sl. No	Name of the Reagent	Pack Size(in ml)	Method	Sensitivity	Linearity
1	Blood Sugar	100/200/500/1000	End point	0.6mg/dl	400mg/dl
2	Blood urea.	200/500/1000	End point	2.5mg/dl	300-350mg/dl
3	S. creatinin	100/200/1000 R1,R2,R3-Standard (Vial)	2-point	0.05mg/dl	Upto 30mg/dl
4	S.Bilirubin (T)	50/100/200/1000 R1,R2-Direct Nitrite Vial	End Point	0.1mg/dl	20mg/dl
5	Bilirubin (D)	100/200/1000	End Point	0.2mg/dl	25mg/dl
6	SGOT	50/200/500	Kinetic	8u/l	Up to 800U/l
7	SGPT	50/200/500	Kinetic	5u/l	Up to 800U/l
8	S.Alkaline Phosphate	50/200/500	Kinetic	8.8U/L	Up to 700U/l
9	S.Total Protein	50/250/500 R1,R2-Standard(vial)	End point	0.17g/dl	Upto 18g/dl
10	S.Albumin	50/250/500 R1,R2- Standard(Vial)	End point	0.1g/dl	.6-.7g/dl
11	S.Calcium/Potassium/Sodium	50/100/200 R1,R2-Standardvial	End point	0.12mg/dl	25mg/dl
12	S.LDH	50/200	Kinetic	0.13mg/dl	20-1000mg/dl
13	S.Amylase	25/ 50/100	kinetic	0.03	1300U/l

Alta
CDM & PHO-Cum-DMD
Balangir

14	S.Uric Acid	25/50 R1,R2-Standardvial	Endpoint	0.02mg/dl	Up to 25mg/dl
15	S.Cholesterol	25/50/100 R1,R2-Standardvial	Endpoint	0.2 mg/dL	800-900mg/dL
16	S.Triglyceride	25/ 50/100	Endpoint	1.6 mg/dL	600-700 mg/dL
17	S.VLDL	100	End Point	0.28 mg/dL	990 mg/dL
18	S.HDL	25/50	End Point	3.0 mg/dL	150 mg/dL

➤ If selected, demonstration of all reagents should be provided by the company with demo kits.

Technical Specification Rapid test Kits

Quality Standard:

The following standards and criteria's are applicable to all the following products.

- The bidder/manufacturer shall furnish a certificate from the competent FDA (Food and Drug Reactions anaphylaxis) that the manufacturer of the pharmaceutical or vaccine product covered by this Invitation for Bids is licensed to manufacture these products
- All products must meet the requirements of manufacturing legislation and regulation of pharmaceuticals or vaccines in the country of origin.
- Must undergo strict raw material inspection, in process checks, appropriate material handling to eliminate cross contamination (of molecules) and final product testing to ensure quality and consistency of the products.
- All reagents/Rapid KITS should be with suitable control.
- The manufacturer should be ISO13485 certified
- All the kits should approved by CE(IVD) /USFDA/GMP
- All the Kit should be DCGI approved.
- If selected, demonstration of all Kits should be provided by the company with demo kits

I. RPR Card test for syphilis

Intend of Use: The assay should allow for qualitative and semi quantitative determination of reagin antibodies in serum or plasma for serodiagnosis of syphilis based on flocculation principle using non treponemal antigens.

Technical Characteristics:

- The assay should be suitable to perform with either serum or plasma
- The assay should have sensitivity of 80% or more in primary syphilis and a specificity of 90% or more
- The assay should be calibrated to WHO reference serum and the same should be supported by statements in kit insert and certificate from manufacturer.
- The test should be able to yield results within 20 minutes.
- The pack size of RPR test kit should be 50 tests per kit
- The assay components should include positive and negative serum controls sufficient for conducting 20% of the tests (10% negative and 10% positive controls)
- The kit should have all essential accessories required for the test such as cards, droppers, applicator, etc. in adequate quantities for the number of tests to be performed.
- The kit should have more than 60% residual shelf-life or 10 months (whichever is more) at the time of dispatch to the consignee
- The kit should have a storage temperature of 2 0C to 8 0C and supplier/ local agent should have the facility to store kits at 2 0C to 8 0C
- Cumulative Time Temperature Indicator should be part of the kit as per specifications defined in the terms and conditions.
- Literature, detailing the components, methodologies, validity criteria, performance characteristics, storage conditions, manufacturing and expiry dates should be provided with each kit.

KIT COMPONENTS PROVIDED

- 1) RPR Carbon Antigen (Red Label): Carbon particles coated with a lipid complex (cardiolipin, lecithin and cholesterol) in phosphate buffer 20 mmol/L, pH 7.0 containing a preservative.
- 2) RPR Positive Control: Artificial serum with reagin titer 1/4.
- 3) RPR Negative Control: Animal serum containing a preservative
- 4) Dispensing bowls (1 x 2 ml).
- 5) Dispensing Needle (x1).
- 6) Disposable agglutination slides.
- 7) Plastic stirrers.


 CDM & PHO-Curti-DMD
 Balangir

2. HIV (Rapid) Whole Blood Finger Prick Test Kits

Intended of Use: The assay should be able to detect antibodies of HIV1, HIV2 and all the subtypes by detection of antibodies by the agglutination/ Enzyme

Should be 3rd generation

1. The assay should have sensitivity of 100% or more and specificity of 100% or more as per data from an identified national reference laboratory.
2. The assay should have solid phase/ particles coated with synthetic and/ or recombinant or both types of antigens of HIV1 & HIV2.
3. Total procedure time should not be more than 30 minutes.
4. The manufacturers should ensure that:
 - a) The test kit should be packed such that there is a provision to conduct single test at a time;
 - b) The assay components should include HIV positive and negative serum controls sufficient for conducting 20% of the tests (10% negative and 10% positive controls); and
 - c) The pack size of HIV rapid test kits should be 30 tests per Kit.

3. Rheumatoid Factor

Intended Of Use: Rapid qualitative or semi-quantitative detection of IgM Rheumatoid Factor in serum.

- > Visual reading
- > Results output <2 minutes
- > Ready-to-use
- > High sensitivity :98.75%
- > Specificity :98.37%
- > The kit should meet all safety requirements with positive and negative controls.

KIT Configuration:

1. **RF Reagent:** A suspension of uniform polystyrene particles coated with IgG (human) in glycine buffer, pH 8.2; reagent sensitivity is standardized with the World Health Organization RF Standard.
2. **RF Positive Control Serum:** A stabilized, prediluted human serum containing at least 30IU/mL/8 IU/mL of RF
3. **RF Negative Control Serum:** A stabilized, prediluted human serum containing less than 8 IU/mL of RF.
4. **Glycine-Saline Buffer (20x)** pH 8.2 ± 0.1M glycine and 0.15M NaCl
5. Reaction Slide.
6. Pipette
7. Disposable Stir Sticks.

Pack Size of the Kit-50 test/100Test

4. ASO

Intend of Use: For the qualitative measurement of antibodies to streptococcal exoenzymes in human serum.

Sensitivity of the test should be minimum: 200 IU/ml

Kit Configuration:

1. **ASO Latex Reagent:** Contains polystyrene latex particles coated with Streptolysin O in a stabilized buffer with less than 0.1% sodium azide as preservative.
2. **ASO Positive Control:** Human serum containing more than 200 IU/ml ASO with less than 0.1% sodium azide as preservative.
3. **ASO Negative Control:** Human serum that has been diluted and stabilized with buffer and contains less than 0.1% sodium azide as preservative.
4. Disposable pipettes
5. Disposable agglutination Slides.

5. HBsAg (Rapid test)

Intended Of Use: HBsAg/HCV Ab Rapid Test is a lateral flow chromatographic immunoassay for the qualitative detection of Hepatitis B surface antigen (HBsAg) and anti-Hepatitis C virus antibodies (IgG, IgM, IgA) in human serum, plasma and whole blood. It is intended to be used as a screening test and as an aid in the diagnosis of infection with Hepatitis B virus (HBV) and Hepatitis C virus (HCV)

- > Should be immunoassay/capture principle
- > Should be lateral flow device
- > Should have in built quality control band or dot
- > Should have short interpretation time not more than 30 minutes
- > Should have specificity and sensitivity of 100 %
- > Must be evaluated and approved by NIB

Kit Configuration

1. Diagnostics Rapid Card
2. HBsAg colloidal gold rapid test strips, each placed in white plastic cassette and packed in foil pouch
3. Instructions for use.
4. 1 vial of sample diluent.

Sensitivity 100 %

Specificity 100 %

6. CRP:C-REACTIVE PROTEIN (CRP) - SLIDE

Intended of Use: CRP TEST is intended to be used for the qualitative screening and semi-quantitative determination of C - reactive protein antibodies (CRP) in serum

Kit Configuration:

1. CRP Reagent: Contains polystyrene latex particles coated with anti-human CRP in a stabilized buffer with less than 0.1% sodium azide as preservative.
2. CRP Positive Control: Human Serum that contains more than 6mg/L CRP and less than 0.1% sodium azide as preservative.
3. CRP Negative Control: Human serum that has been diluted and stabilized with buffer and contains less than 0.1% sodium azide as preservative.
4. Glycine-saline Buffer: (20X) Concentrate To be diluted 1:20 with distilled water
5. Disposable pipettes and test slides.

Pack Size:50test/100test

7.URINE Complete rapid test reagent strips ;

➤ Urine Reagent Strips are for in vitro diagnostic use only.

➤ Indications for urine test strips:

Screening for prevention

Treatment monitoring

Patient self-testing

➤ Urine Reagent Strips provide tests for the following parameters:

- Glucose
- Bilirubin
- Ketone (Acetoacetic acid)
- Specific Gravity
- Blood
- pH
- Protein
- Urobilinogen
- Nitrite
- Leukocytes
- Ascorbic Acid in Urine.

➤ The Urine Reagent Strips should be packaged along with a drying agent in a plastic bottle with a cap to provide complete air tight.

➤ Each strip should be stable and ready to use upon removal from the bottle.

➤ The entire reagent strip should be disposable

➤ Results are obtained by direct comparison of the test strip with the color blocks printed on the bottle label.

➤ All the reagent strips should be withstand at a room temperature between 15°-30°C (59°-86°F) and out of direct sunlight.

➤ The minimum self-life of the urine strips should be 1year unopened and minimum 3months once it is opened.

➤ The required controlled shall be provided along with the strip packet.

➤ The strip pack sizes should be of 25/50/100 sizes.

➤ Urinalysis test strips types

1. Ketones- Single test
2. Glucose, Protein & pH- Three parameter
3. Glucose, Protein pH, Leukocytes, Nitrites, Ketones, Bilirubin, Blood, Urobilinogen, and Specific Gravity-10 parameter
4. Leukocytes and Nitrite- Special parameter

Quality Standards:

- The manufacturer should be ISO 13485 certified.
- The strips should be USFDA/CE (IVD) approved.
- The strips should be DCGI approved.

8. Urine Pregnancy Test:

Intended of Use: One step hCG Serum/Urine Combo Rapi-Card rapid test for the qualitative detection of human chorionic gonadotropin (hCG) in serum and urine.

- Serum/Urine Combo Pregnancy Test Cassette is a rapid test that qualitatively detects the presence of hCG in serum and urine specimens at the sensitivity of 20mIU/mL. The test utilizes a combination of monoclonal and polyclonal antibodies to selectively detect elevated levels of hCG
- Result should be produced within 1 minute.
- Accuracy: 99%
- Sensitivity: 20mIU/mL
- The test strips should have inbuilt quality control to achieve the above accuracy

Kit Configuration

1. Urine Pregnancy Test Rapid Card
2. Disposable pipette
3. Instructions for use

Storage condition 2-30 degree

Quality Standards:

- The manufacturer should be ISO 13485 certified.
- The strips should be USFDA/CE (IVD) approved.
- The strips should be DCGI approved.

9. Widal test KIT

The test kit should have the following configuration.

1. 'O' Antigen 5ml
2. 'H' Antigen 5ml
3. AH' Antigen 5ml
4. BH' Antigen 5ml
5. Positive control 5ml
6. Negative control 5ml
7. Test Serum Sample 2 ml
8. Glass Slide 1 No. RT
9. Disposable Mixing Sticks

- Result should be within 3 minutes
- Homologues antigen antibody reaction with no cross reactivity with other salmonellar groups
- High specificity: 98%
- Higher sensitivity: 98%
- Self-life 1 year

10A. Dengue Rapid KIT (Dengue NS1 Ag Rapid)

- Should be a rapid test based on lateral flow technique.
- Test must be able to detect Dengue virus NS1 Ag from Day 1 of fever.
- Should be able to detect all the 4 Dengue serotypes (DEN-1, DEN-2, DEN-3, and DEN-4).
- Test should provide results within 20 minutes

- Should have long shelf life: 24 months.
- It should have a convenient pack size : 25 tests
- Adequate documents detailing the principle, components, bio-safety, methodologies, validity criteria, interpretation of results, performance characteristics, storage conditions, limitation of assays, manufacturing and expiry dates should be provided with each kit
- The kit to be procured should have approval of the statutory authority in its country of origin
- In case of imported kits it should be registered and licensed in India by DCG (I)
- In case of indigenous manufacturers they should be licensed by the competent authority defined under Drugs and Cosmetics act 1940 after appropriate evaluation by the centers approved by DCG(I)
- Sensitivity- > 95% and Specificity- 99%

10.B.Dengue IgM/ IgG Rapid

- Test should be a solid phase in vitro immunochromatographic test for the qualitative and differential detection of IgG and IgM antibodies to dengue virus serotype DEN-1, 2, 3 and 4 in human serum, plasma or whole blood
- The test should be able to differentially detect IgG and IgM antibodies against all 4 serotypes of Dengue virus
- Results should be available in 15-20min.
- Test should be able to give a presumptive differentiation between primary & secondary dengue infections
- Test should have no cross reactivity with other Flavivirus group mediated and mosquitoes-borne disease
- Dengue IgG/IgM (Plasma Serum WB) : Sensitivity 94%, Specificity ≥ 96% Adequate documents detailing the principle, components, bio-safety, methodologies, validity criteria, interpretation of results, performance characteristics, storage conditions, limitation of assays, manufacturing and expiry dates should be provided with each kit
- The kit to be procured should have approval of the statutory authority in its country of origin
- In case of imported kits it should be registered and licensed in India by DCG (I)
- In case of indigenous manufacturers they should be licensed by the competent authority defined under Drugs and Cosmetics act 1940 after appropriate evaluation by the centers approved by DCG(I)
- Kit should have minimum shelf life of 60% or 12 months (whichever is more at the port of discharge of consignees)

11.Malaria Rapid Kit(Malaria Antigen Rapid (Pan Specific / pf))

- Should be a rapid immunochromatographic test
- Test should be able to detect and differentiate between Antigen of *P.falciparum* (HRP-2/ LDH) and Pan Plasmodia against *P.falciparum*, *P.vivax*, *P.ovale*, *P.malariae* (LDH) from human serum or plasma or whole blood
- The test should be based on the principle of capture of parasite antigen from blood using monoclonal antibodies
- specific for antigen target
- Each test kit should contain all the material required for conducting the
- Each batch of Rapid tests should be tested during time of delivery to ensure sensitivity and specificity of > 99%.
- Each kit should be packed in a hermetically sealed and nonpermeable pouch and should have moisture adsorbent material
- Kit should have a pack size of 25 such test cards/strips
- Result should be available in 20 minutes
- Adequate literature detailing the components, methodologies, validity criteria, storage conditions, expiry date and limitations of test should be provided
- The kit to be procured should have approval of the statutory authority in its country of origin
- In case of imported kits it should be registered and licensed in India by DCG (I)
- In case of indigenous manufacturers they should be licensed by the competent authority defined under Drugs and Cosmetics act 1940 after appropriate evaluation by the centers approved by DCG(I)
- Kit should have minimum shelf life of 12 months (whichever is more at the port of discharge of consignees)

12. Troponin-I (Card Test)

Troponin I test is a rapid, qualitative test for the detection of cardiac troponin I (cTnI) in serum, plasma, whole blood as an aid in the diagnosis of myocardial infarction of a patient.

Test principle: Immuno-chromatographic.

Detection of: Cardiac troponin I (cTnI)

It should detect cardiac Troponin I at a concentration of $>0.5\text{ng/ml}$

Sample Type: Serum, Plasma, whole blood

Specificity: 98.9%

Sensitivity: 96.9%

Time to result: 10-15 minutes

Storage Condition: 2-30°C

Self-Life: 24 months

Pack Size: 10 test cards individually sealed/packed in a box.

The box should contain

1- Test Device

2- Disposable droppers

3- Buffer Solution

4- Package insert

CE marked as per IVD

Manufacturer Should be ISO13485 certified.

13. Troponin T

Qualitative detection of troponin in anticoagulated

(EDTA or heparin) venous whole blood

- o Reaction time < 15 min.
- o Positive result from a threshold (cut-off) of 100 ng/L.
- o Storage at 2 to 8°C
- o Test can be used immediately after removal from refrigerator
- o Self-life: 1 month

Pack Size:

1. Disposable test strips (individually sealed)
- 2.5 pipettes (150 μL)
3. Disposable labels
- 4.1 package insert
- 5.1 vial of negative control solution (lyophilized) for 6 determinations

Lab -Diagnostic Materials

<p>Rapid Pregnancy Testing Kit</p>	<p><u>Urine Pregnancy Test:</u></p> <p><u>Intended of Use:</u> One step hCG Serum/Urine Combo Rapi-Card rapid test for the qualitative detection of human chorionic gonadotropin (hCG) in serum and urine.</p> <ul style="list-style-type: none"> > Serum/Urine Combo Pregnancy Test Cassette is a rapid test that qualitatively detects the presence of hCG in serum and urine specimens at the sensitivity of 20mIU/mL. The test utilizes a combination of monoclonal and polyclonal antibodies to selectively detect elevated levels of hCG > Result should be produced with 1 minute. > Accuracy: 99% > Sensitivity: 20mIU/mL. > The test strips should have inbuilt quality control to achieve the above accuracy. <p><u>Kit Configuration</u></p> <ol style="list-style-type: none"> 1. Urine Pregnancy Test Rapid Card 2. Disposable pipette 3. Instructions for use <p>Storage condition 2-30 degree</p>
------------------------------------	--

	<p>Quality Standards:</p> <ul style="list-style-type: none"> ➤ The manufacturer should be ISO 13485 certified. ➤ The strips should be USFDA/CE (IVD) approved. ➤ The strips should be DCGI approved.
<p>N/10 Hydrochloric Acid(500ml)</p>	<ul style="list-style-type: none"> ◆ N/10 Hydrochloride Solutions (HCL) ◆ Pack Size: 500ml ◆ Packed in a narrow mouth polyethylene bottle. ◆ Manufacturer should be ISO 13485 certified ◆ Product should be CE certified as per IVD directive
<p>Dipsticks for urine test for protein and sugar (1 container of 25 strips)</p>	<p>URINE Complete rapid test reagent strips :</p> <ul style="list-style-type: none"> ➤ Urine Reagent Strips are for in vitro diagnostic use only. ➤ Indications for urine test strips: <ul style="list-style-type: none"> • Screening for prevention • Treatment monitoring • Patient self-testing ➤ Urine Reagent Strips provide tests for the following parameters: <ul style="list-style-type: none"> • Glucose • Bilirubin • Ketone (Acetoacetic acid) • Specific Gravity • Blood • pH • Protein • Urobilinogen • Nitrite • Leukocytes • Ascorbic Acid in Urine. ➤ The Urine Reagent Strips should be packaged along with a drying agent in a plastic bottle with a cap to provide complete air tight. ➤ Each strip should be stable and ready to use upon removal from the bottle ➤ The entire reagent strip should be disposable. ➤ Results are obtained by direct comparison of the test strip with the color blocks printed on the bottle label. ➤ All the reagent strips should be withstand at a room temperature between 15°-30°C (59°-86°F) and out of direct sunlight. ➤ The minimum self-life of the urine strips should be 1year unopened and minimum 3months once it is opened. ➤ The required controlled shall be provided along with the strip packet. ➤ The strip pack sizes should be of 25/50/100 sizes. ➤ Urinalysis test strips types <ol style="list-style-type: none"> 1. Ketones- Single test 2. Glucose, Protein & pH-Three parameter 3. Glucose, Protein pH, Leukocytes, Nitrites, Ketones, Bilirubin, Blood, Urobilinogen, and Specific Gravity-10 parameter 4. Leukocytes and Nitrite-Special parameter

	<p>Quality Standards:</p> <ul style="list-style-type: none"> ➤ The manufacturer should be ISO 13485 certified. ➤ The strips should be USFDA/CE (IVD) approved. ➤ The strips should be DCGI approved.
<p>Lab Materials</p> <p>Dipsticks for urine test for protein and sugar</p>	<p>URINE Complete rapid test reagent strips :</p> <ul style="list-style-type: none"> • Urine Reagent Strips are for in vitro diagnostic use only. • Indications for urine test strips: <ul style="list-style-type: none"> • Screening for prevention • Treatment monitoring • Patient self-testing • Urine Reagent Strips provide tests for the following parameters: <ul style="list-style-type: none"> • Glucose • Bilirubin • Ketone (Acetoacetic acid) • Specific Gravity • Blood • pH • Protein • Urobilinogen • Nitrite • Leukocytes • Ascorbic Acid in Urine. • The Urine Reagent Strips should be packaged along with a drying agent in a plastic bottle with a cap to provide complete air tight. • Each strip should be stable and ready to use upon removal from the bottle. • The entire reagent strip should be disposable. • Results are obtained by direct comparison of the test strip with the color blocks printed on the bottle label. • All the reagent strips should be withstand at a room temperature between 15°-30°C (59°-86°F) and out of direct sunlight. • The minimum self-life of the urine strips should be 1 year unopened and minimum 3 months once it is opened. • The required controlled shall be provided along with the strip packet. • The strip pack sizes should be of 25/50/100 sizes. • Urinalysis test strips types <ul style="list-style-type: none"> • Ketones- Single test • Glucose, Protein & pH- Three parameter • Glucose, Protein pH, Leukocytes, Nitrites, Ketones, Bilirubin, Blood, Urobilinogen, and Specific Gravity-10 parameter • Leukocytes and Nitrite-Special parameter <p>Quality Standards:</p> <ul style="list-style-type: none"> • The manufacturer should be ISO 13485 certified. • The strips should be USFDA/CE (IVD) approved. • The strips should be DCGI approved.

<p>Malaria Rapid Test Kit</p> <p>Whole blood finger prick HIV Rapid Test & STI screening test</p>	<p>Central store/NVBDCP</p> <p>Intended of Use: The assay should be able to detect antibodies of HIV1, HIV2 and all the subtypes by detection of antibodies by the agglutination/ Enzyme Should be 3rd generation:</p> <ul style="list-style-type: none"> • The assay should have sensitivity of 100% or more and specificity of 100% or more as per data from an identified national reference laboratory. • The assay should have solid phase/ particles coated with synthetic and/ or recombination or both types of antigens of HIV1 & HIV2. • Total procedure time should not be more than 30 minutes. • The manufacturers should ensure that: <ul style="list-style-type: none"> ▪ The test kit should be packed such that there is a provision to conduct single test at a time; ▪ The assay components should include HIV positive and negative serum controls sufficient for conducting 20% of the tests (10% negative and 10% positive controls); and ▪ The pack size of HIV rapid test kits should be 30 tests per Kit. • The manufacturer should be ISO 13485 certified. • The strips should be USFDA/CE (IVD) approved. • The strips should be DCGI approved.
<p>Typhoid rapid test kit</p>	<p>Widal test KIT The test kit should have the following configuration</p> <ol style="list-style-type: none"> 1. 'O' Antigen 5ml 2. 'H' Antigen 5ml 3. AH' Antigen 5ml 4. BH' Antigen 5ml 5. Positive control 5ml 6. Negative control 5ml 7. Test Serum Sample 2 ml 8. Glass Slide 1 No,RT 9. Disposable Mixing Sticks <ul style="list-style-type: none"> ➤ Result should be within 3 minutes ➤ Homologuesantigen antibody reaction with no cross reactivity with other salmonellar groups ➤ High specificity:98% ➤ Higher sensitivity:98% ➤ Self-life 1year
<p>Rapid test kit for Hepatitis B & C</p>	<p>Intended Of Use:HBsAg/HCV Ab Rapid Test is a lateral flow chromatographic immunoassay for the qualitative detection of Hepatitis B surface antigen (HBsAg) and anti-Hepatitis C virus antibodies (IgG, IgM, IgA) in human serum, plasma and whole blood. It is intended to be used as a screening test and as an aid in the diagnosis of infection with Hepatitis B virus (HBV) and Hepatitis C virus (HCV).</p> <ul style="list-style-type: none"> ➤ Should be immunoassay/capture principle ➤ Should be lateral flow device ➤ Should have in built quality control band or dot ➤ Should have short interpretation time not more than 10 minutes ➤ Should have specificity and sensitivity of 100 % ➤ Must be evaluated and approved by NIB <p>Kit Configuration</p> <ol style="list-style-type: none"> 5. Diagnostics Rapid Card 6. HBsAg colloidal gold rapid test strips, each placed in white plastic cassette and

	<p>packed in foil pouch.</p> <p>7. Instructions for use.</p> <p>8. 1 vial of sample diluent.</p> <p>Sensitivity 100 %</p> <p>Specificity 100 %</p>
Slide drying rack	<p>Acrylic slide rack. inclined. used for draining/drying slides.</p> <p>3 slots accommodate 25 slides.</p>
Specimen collection bottle(100/pack)	Plastic Bottles
Spirit lamp	<ul style="list-style-type: none"> ➤ Made of stainless steel 304 grades. ➤ Should have cap and wick. ➤ Dimension: 63.00 X 63.00mm (HxD) ±3mm ➤ Spirit tank capacity: minimum 100ml Spirit <p>Quality Standards:</p> <ul style="list-style-type: none"> ➤ The item should be CE certified ➤ Manufacturer should be ISO 13485 Certified
Test tube holding clamp	<ul style="list-style-type: none"> ✓ A pair of spring strip of hard rolled stainless steel, mounted in wooden handle ✓ in cross-scissor shape, and accepts tubes of diameter 12-43 mm. ✓ Overall length about 225mm <p>Quality Standards:</p> <p>The item should be CE certified</p> <p>Manufacturer should be ISO 13485 Certified</p>
Test tube rack	<ul style="list-style-type: none"> • 2x 10/12 format rack • The rack shall be able to hold 16mm/17mm tubes. • Made of durable polypropylene (PP)/ acetal resin • Unbreakable and resistance to chemicals • Can be autoclaved at 121°C for 10minutes at least <p>Quality Standards:</p> <p>The item should be CE certified</p> <p>Manufacturer should be ISO 13485 Certified</p>
Test tubes	Central Store
Glass rods	<ul style="list-style-type: none"> • Material: soda-lime /borosilicate/ quartz. Resistance to acid and alkali • Diameter: 10mm. • Length: 10cm • Surface: polished <p>Quality Standards:</p> <p>The item should be CE certified</p> <p>Manufacturer should be ISO 13485 Certified</p>
Glass Slide box of 25 slides	<p>Optically flat Glass Sheets uniform in size with ground for smooth microscopic and other lab test.</p> <p>Size: 76 x 26mm/75x25mm</p> <p>Thickness 1-1.2mm</p> <p>Pack Size: 25/packer. 10 packer contained in one pack.</p> <p>All the slides should be pre-washed and polished</p>

	<p>Quality Standards: The item should be CE certified Manufacturer should be ISO 13485 Certified</p>
Reagents such as Hydrochloric acid, acetic acid, Benedict's solution, Bleaching powder, Hypochlorite solution, Methylated spirit etc.	Central Store
Acetic Acid Solution(500ml)	Central Store
Micropipette	<ul style="list-style-type: none"> ➤ Should have ergonomic design with light & smooth plunger action ➤ Should have soft feel handle grip having both left & right hand operation ➤ Pipette handle should have thermoplastic elastomeric to prevent transfer of body heat to pipette volume during continuous usage ➤ Fully autoclavable: Entire pipette can be steam autoclaved at temp. Of 121 OC ➤ Should have larger & clear 3 digit display giving smaller increment for wider selection of volume ➤ Volume range should be of 1-10ml with increments of 20 µl ➤ Accuracy: 1 to 2% ➤ Should have locking mechanism to prevent accidental volume change during pipetting ➤ Should have one hand eject facility ➤ Should have in house clinical, repair and calibration facility ➤ The tip cone should have leak free operation, smooth and light loading operation with choice of using variety of tips. ➤ Should be compatibles to universal tip types ➤ Should be available with different color codes. ➤ Warranty: 3years. <p>Quality Standards:</p> <ul style="list-style-type: none"> ➤ Should be USFDA/CE (IVD) approved product ➤ Manufacturers should have ISO 13485 certification for quality standards ➤ Should be applied with individual QC & calibration report according to ISO 8655
Yellow Tips for Micropipette	<p>Pipette tips should be designed to fit and function on a wide variety of single or multichannel pipettes. It should be manufactured from the finest grade polypropylene material for proper fit and straightness.</p> <p>Packaging: Sterile wrapped racks.</p> <p>Quality Standards: The item should be CE certified Manufacturer should be ISO 13485 Certified</p>
H ₂ S strips test bottles for water testing	<ul style="list-style-type: none"> • Sensitivity: 5, 10, 20, 30, 40, 50, 60 and 80 ppm (mg/L) • Test time: 30 seconds • Bottle of 50 test strips

Lead Apron

- 0.5mm Pb equivalency frontprotection
- 96.8% Attenuation over 80, 100, 120KVP
- Lightweight Lead is lighter than the Regular Lead and isrecyclable
- Protection Materials: Lead-Tin
- Hook & Loopclosure
- Color: Sapphire DiamondRipstop
- Flex back design allows for a comfortable fit with a snug closure around the waist andhips

- Concealed padding provides added comfort to the shoulders
- Included double pocket is conveniently located

Available in 4 standard unisex sizes. To select your size please consider the following:

- Width: Choose a width that guards at least half your circumference
- Length: Choose a length that properly protects you from your sternal notch to just above or below the knee, depending on your preference

Item weights:

- Small: 6.25lbs.
- Medium: 7.8lbs.
- Large: 8.55lbs.
- X-Large: 9.55lbs.

SECTION-(II)

INSTRUMENT, EQUIPMENTS & FURNITURES

SPECIFICATIONS

INSTRUMENT

Technical specifications for Equipment/ Instruments for HWCs

Surgical Instruments	Quality standard (Applicable to all surgical instruments): Instruments should be made up of stainless steel medical grade AISI 410 & 420. Test reports should be submitted in the technical bid. Part No. and the CE Mark must be engraved/Embossed on the instrument. Sample demonstration Instrument should cover 2 years replacement warranty. All the instruments should be autoclavable
Kelly's Forceps	Kelly's hemostat Forceps straight 140 mm
Cheate's Forceps with Holder	Cheate's Forceps 10" with SS Holder
Needle Holder	Needle holder -8inch
Scalpel holder with blade	Central Store supply
Sponge holder	Sponge holding forceps 8" with double action jaws
Kidney tray	Kidney tray 8"
Artery Forceps, straight, 160mm Stainless steel	Artery Forceps, straight, 160mm Stainless steel
Stitch cutter	Stitch cutting size with round handle double action jaw of 6 inch.
Allis forceps	Tissue Forceps finger ring, ratcheted forceps straight with 5x6 teeth and an overall length of 7-1/2 inches.
Dressing Forceps (spring type), 160 mm, stainless steel	Dressing Forceps (spring type), 160 mm, stainless steel
Artery Forceps-Curved	Artery Forceps 5"Curved double action jaw ratcheted with ring handle double action jaws.
Gauze Cutting Scissors	Angled with the lower blade being slightly longer & tip of the lower blade features a

	flattened blunt nodule to slide between bandages and skin without harming the skin. Size:5"
Digital Thermometer	<p>Range of temperature measurement 320C- 420 (89.60F-109.40F). Can be calibrated in both centigrade and Fahrenheit, but if only one option is available, then Fahrenheit is preferable. Buzzer signal function. Takes 10-15 seconds to measure temperature. Can be used in the armpit/axilla, orally and rectally. Accuracy of temperature ± 0.1degC and ± 0.2 F. User's interface :LCD display Manufacturer should be ISO13485 approved Product should be BIS/CE approved</p>
Examination Lamp	<ul style="list-style-type: none"> • Source of Light: LED light • Illumination(Ix) should be LED • Minimum 25,000 Lux at a working distance of .5m • Radial and axial movement of the lamp • Colour temperature: minimum 4000K • Minimum Diameter of the spot 5cm • Flexible Light pipe for easy positioning of minimum length of 1meter. • Lamp Life of minimum 30000 hrs • CRI>90 • Power Requirements-Recharging unit: Input voltage- 220V-240V AC, 50Hz <p>Should be USFDA/CE approved model. Manufacturer should be ISO 13485 certified. Electrical safety conforms to the standards for electrical safety IEC 60601-1General requirements (or equivalent BIS Standard)</p>
Oxygen Cylinder with trolley	Central Store Supply
Stadiometer	<ul style="list-style-type: none"> • The measuring rod can be dismantled into several pieces and can be set easily. • The scale must be printed along the side of the measuring rod. • Measuring range (Both in cm & inch): 20-205 cm and 8 - 81". • Graduation of measuring rod: 1mm / 8inch. • The structure should be made of ABS plastic. The product • should be CE certified (certificate to be submitted in technical bid) <p>Warranty : 1 Year</p>
Nebulizer	<p>Should be of Heavy duty compact Nebuliser Heavy duty ,Compact, lightweight, low noise(50dB+ 3dB) Durable long life compressor. Suitable for heavy duty/ institutional (hospital) use, should be able to run uninterruptedly for one hour. Max Pressure = 2.0-2.5 bars Operating pressure: 1to1.5bars Compressor Air flow:8Lpm Normal Air Flow:4lpm Should produce particle of size 1-5 micron. Mass median Diameter (MMD) =2.5-3m. Output rate: 500gm/Min. Made of Heavy duty ABS body Power Supply: Power input to be 220-240VAC, 50Hz fitted with Indian plug Should be USFDA/CE approved model. Manufacturer should be ISO 13485 certified.</p>

	Electrical safety conforms to the standards for electrical safety IEC 60601-1 General requirements (or equivalent BIS Standard)
Microscope	<p>GMDN name : Binocular Microscope</p> <p>A. General Use</p> <ul style="list-style-type: none"> • Clinical purpose: Binocular microscope is simply a microscope that lets the viewer use both eyes. The microscope has 2 eye lenses. The development of the double eye piece microscope was adapted to reduce the eyestrain and muscular strain that typically results from traditional microscopes. • Used by clinical department/ward: Clinical labs <p>B. Technical Characteristics</p> <ul style="list-style-type: none"> • Technical characteristics (specific to this type of device) <ul style="list-style-type: none"> ▪ Body-Single mould sturdy stand, inclined Binocular body 30°, 360° rotatable head ▪ Eyepieces-Highest quality 10X/20mm wide angle anti fungus field eyepiece. One with pointer. Diopter adjustment must be present on both eye pieces. ▪ Objectives-Parfocal, antifungus coated 4x, 10x, 40x and 100x (oil immersion) with semi planar achromatic correction. Objective should be well centred even if their position on turret is changed. ▪ Optical system-Infinity corrected ▪ Stage - Double plate rackless horizontal mechanical stage preferably 100 x 140 mm with fine vernier graduations designed with convenient coaxial adjustment for slide manipulation preferably through 30 x 70 mm double slide holder ▪ Sub stage-Abbe condenser focusable, continuously variable iris diaphragm ▪ Illuminator-Built-in LED light source with white light with intensity control and LED life of more than 10,000 Hrs. Colour Temperature minimum: 4000K. ▪ Finish-A durable textured acid resistant finish. ▪ Battery backup: minimum 1 Hour ▪ Nose piece: Backward tilted revolving nose piece suitable to accommodate four objectives with click stop and rubber grip. ▪ Focussing: Coaxial coarse and fine focussing knob, capable of smooth, fine focussing movement sensitivity: minimum: 300 micron: focussing stop for slide safety ▪ 12-Objectives: All DIN type Plan Achromatic (Anti Fungus) <ul style="list-style-type: none"> ▪ 04x N.A 0.1 WD 6.50mm ▪ 10x N.A 0.25 WD 5.6mm ▪ 40x N.A 0.65 WD 6mm ▪ 100x (Oil).N.A 1.25 WD 15mm • User's interface : Manual • Software and/or standard of communication (where ever required) : NA <p>C. Physical Characteristics</p> <ul style="list-style-type: none"> • Dimensions (metric) : NA • Weight (lbs, kg) : NA • Capacity: NA • Noise (in dBA) : NA • Heat dissipation: NA • Mobility, portability: Portable <p>D. ENERGY SOURCE : (Electricity)</p> <ul style="list-style-type: none"> • Power Requirements: Input voltage- single • Battery operated: Yes with 1hour backup • Tolerance (to variations, shutdowns): NA • Pressure gauge : NA • Operating pressure: NA • Sterilizing pressure: NA • Protection: Should have over-charging cut-off with visual symbol. • Power consumption : less than 2 Watt

E. Accessories, Spare Parts, Consumables

- Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables / reagents (open, closed system) : Should provide with wooden storage box, dust cover, immersion oil.

F. Environmental and Departmental Considerations

- Atmosphere / Ambiance (air conditioning, humidity, dust ...)

Operating condition: Capable of operating continuously in ambient temperature of 10 to 50 deg C and relative humidity of 15 to 90% in ideal circumstances.

Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%."

- User's care, Cleaning, Disinfection & Sterility issues:

- Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover.
- Sterilization not required."

G. Standards and Safety

- Certificates (pre-market, sanitary, ..); Performance and safety standards (specific to the device type); Local and/or international
- Should be US FDA/CE (from a Notified body)/BIS approved product.
- Manufacturer should have ISO 13485 certification for quality standards.
- Electrical safety conforms to the standards for electrical safety IEC 60601-General requirements (or equivalent BIS Standard)
- Certified to be compliant with IEC 61010-1, IEC 61010-2-40 for safety.

H. Training and Installation

- Pre-installation requirements: nature, values, quality, tolerance
- Availability of 5 amp socket;
- Safety and operation check before handover;
- Requirements for sign-off : Certificate of calibration and inspection from the manufacturer
- Training of staff (medical, paramedical, technicians)
- Training of users on operation and basic maintenance;
- Advanced maintenance tasks required shall be documented

I. Warranty and Maintenance

- Warranty: 3 years
- Maintenance tasks: CMC 5 years, 2 PM Visits Annually.

All Breakdown calls to be attended within 24 hrs of registration."

- Service contract clauses, including prices : The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee / warranty period should be attached:

J. Documentation

- Operating manuals, service manuals, other manuals "Should provide 2 sets(hardcopy and soft-copy) of:-
- User, technical and maintenance manuals to be supplied in english/hindi language along with machine diagrams;
- List of equipment and procedures required for local calibration and routine maintenance;
- Service and operation manuals (original and copy) to be provided;
- Advanced maintenance tasks documentation;
- Certificate of calibration and inspection"
- Other accompanying documents: List of important spares and accessories, with their part numbers and cost;

K. Notes

- Service Support Contact details (Hierarchy Wise: including a toll free/standline number) "Contact details of manufacturer, supplier and local service agent to be provided;

Any Contract (AMC/CMC/add-hrc) to be declared by the manufacturer."

- Recommendations or warnings Any warning signs would be adequately displayed

Neuber Chamber	<p>The counting grid is of 3mmx 3mm in size.</p> <ul style="list-style-type: none"> • The grid should have 9 square subdivisions of width 1mm. • The central square should be split into 25 squares of width 0.2mm (200µm) • The haemocytometer should have two cover slips. • The glass cover should be of squared shaped of width 22mm • Material: Thermal and shock resistant glass • The chamber should have two special clamps to avoid the cover glass to avoid edge-lift. <p>Pipette The pipette should be made of glass of maximum capacity of 20,200 and 2000µL. Dimensions (metric):length-300mm +/-10mm, 2mm thickness. Autoclaving at 121degree centigrade Should be resistance to mechanical, chemical and over heating.</p> <p>STANDARDS AND SAFETY:</p> <ol style="list-style-type: none"> 1. should be ISO 648/IS 117 approved product. 2. Manufacturer and Supplier should have ISO13485/ ISO 9001 certification for quality standards. 3. Certificate of calibration from the manufacturer 4. The product should be USFDA/ CE marked
ESR Stand with tube	<ul style="list-style-type: none"> ➤ ESR Stand with Tubes ➤ Screw type stand with cast iron base and highly nickel plated ➤ The base shall have minimum 5 tube holder ➤ 2 nos spare tubes should be provided with the ESR stand. ➤ The vitros tube should be made of Soda-lime Glass/borosilicate glass material. ➤ Dimension: <ul style="list-style-type: none"> • 110 to 120mm mm Length • 2.9mm to 3 mm inside Diameter • 7.0mm to 8.0mm outer diameter. ➤ The uniformity of the bore shall be ± 0.1 mm throughout the tube. ➤ The tube shall be graduated from 0 to 105mm ± 0.25 mm in 1-mm divisions and numbered every 1 cm from the inside bottom of the tube. ➤ The tube shall be legibly marked with the manufacturer's or vendor's name or mark and possess a frosted area for marking purposes. ➤ Open at both ends; cotton plugged ➤ Calibration in yellow/white for easy reading. ➤ It should have good chemical resistance towards acids, salt solutions and organic solutions. ➤ Can be easily cleaned with distile water. ➤ It should be autoclavable. <p>Quality Standards:</p> <ul style="list-style-type: none"> ➤ The item should be CE certified with marking ➤ Manufacturer should be ISO 13485 Certified.
TC-DC Count apparatus	<p>TC-DC Count apparatus: All metal case housing ,durable ,Chemical resistant easy to clean and disinfect. Stable and wide base with rubber feet</p> <p>Should be 8-Key model with dual reset mount</p> <p>Should have totalizer window</p> <p>Should have WBC maturation series picto-strip chart just above the key window</p>
Stopwatch	Stopwatch for Laboratory use
Sickling test kit	<p>Kit consists of</p> <ul style="list-style-type: none"> R1-2x20ml(Solubility buffer) R2-2 vials (Solubility reagent-Sodium Dithionite) Empty reaction tube-20nos Result reading stand-1 Reagent dropper-2

	<p>1ml dropper-20 er test-2 insert-1</p>
Water quality test- H2S Strip test	<ul style="list-style-type: none"> • Sensitivity: 5, 10, 20, 30, 40, 50, 60 and 80 ppm (mg/L.) • Test time: 30 seconds • Bottle of 50 test strips
Colorimeter	<p>Digital colorimeter for clinical biochemical test. Digital Colorimeter with auto zero facility displaying test result. Easy operation with auto storage facility of concentration. Wavelength: 410, 470, 490, 520, 540, 580, 610 & 640 nm Photometric range :%of Transmission 0 to 100 Absorbance -0.0 to 1.5 Abs Repeatability \pm 0.01 Abs Sample volume: 1ml Light source: Halogen/LED Sample Holder :75 x 12 mm \pm 0.5 mm Test tube with 10 mm Path Length With shutter. The manufacturer should be ISO13485 approved Product should be CE certified Product should be safety compliance to IEC 61010</p>
Centrifuge machine	<p>Centrifuge Table Top- 4tube GMDN name : Centrifuge 1 USE 1.1 Clinical purpose: Used in Biochemical and Analytical labs for Hematocrit, blood Corpusule percentage, Serum Analysis, Precipitate Seperation and Blood Group matching. 1.2 Used by clinical department/ward: Analytical Laboratories TECHNICAL 2 TECHNICAL CHARACTERISTICS 2.1 Technical characteristics (specific to this type of device) * <ul style="list-style-type: none"> • Speed: Maximum Range 3000 to 3500RPM • Receptrocating Centrifugal force (RCF): 1500 to 1600 • Minimum Capacity: 60ml • Digital Timer range: 0 to 30 minutes with Hold Function • Auto Lid interlock to prevent opening while running centrifuge with emergency lidlock release. • The lid will be only opened once the motor is completely stop. • Digital display of RPM • Stainless steel Chamber easy to clean • Hinges to prevent door falling • Rotor Head Sizes: 4x 15ml.Rotor Head: Angle rotor • Rotors should be autoclavable • The unit should be vibration free.* • Noise level <60dB. 2.2 User's interface Manual 2.3 Software and/or standard of communication (where ever required) NA 3 PHYSICAL CHARACTERISTICS</p>

3.2	Weight (lbs, kg)	NA
3.3	Capacity	120 ml or above
3.4	Noise (in dBA)	NA
3.5	Heat dissipation	Heat Dissipation: Should maintain nominal Temp and the heat should be disbursed through an cooling mechanism
3.6	Mobility, portability	Portable
4	ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2)	
4.1	Power Requirements	"220-240 V/50Hz
4.2	Battery operated	No
4.3	Protection	NA
4.4	Power consumption	100 to 200 Watts
5	ACCESSORIES, SPARE PARTS, CONSUMABLES	
5.1	Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables / reagents (open, closed system) Rubber adapter should be provider for the use of vacutainer for 3ml and 5ml	
6	ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS	
6.1	Atmosphere / Ambiance (air conditioning, humidity, dust ...)	
	1) Operating condition: Capable of operating continuously in ambient temperature of 10 to 50 deg C and relative humidity of 15 to 90% in ideal circumstances.	
	2) Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%."	
6.2	User's care, Cleaning, Disinfection & Sterility issues	"1) Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover. 2) Sterilization not required."
7	STANDARDS AND SAFETY	
7.1	Certificates (pre-market, sanitary, ..); Performance and safety standards (specific to the device type); Local and/or international	
	1. Should be FDA/CE (From a notified body) as per IVD /BIS approved product.	
	2. Manufacturer and Supplier should have ISO 13485 certification for quality standards.	
	3. Certified to be compliant with IEC 61010-1, IEC 61010-2-20 for safety. General requirements"	
	IEC 61010-2-020 "Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-020: Particular requirements for laboratory centrifuges"	
8	TRAINING AND INSTALLATION	
8.1	Pre-installation requirements: nature, values, quality, tolerance	
	1) Availability of 5 amp socket;	
	2) Safety and operation check before handover;	
8.2	Requirements for sign-off	Certificate of calibration and inspection from the manufacturer
8.3	Training of staff (medical, paramedical, technicians)	
	1) Training of users on operation and basic maintenance;	
	2) Advanced maintenance tasks required shall be documented	
9	WARRANTY AND MAINTENANCE	
9.1	Warranty	3 years
9.2	Maintenance tasks	"CMC 5 years 2 PM Visits Annually. All Breakdown calls to be attended within 24 hrs of registration."
9.3	Service contract clauses, including prices and accessories (including minor) required for maintenance and repairs in future after guarantee / warranty period should be attached;	The spare price list of all spares
10	DOCUMENTATION	
10.1	Operating manuals, service manuals, other manuals	"Should provide 2 sets (hardcopy and soft-copy) of:-
	1) User, technical and maintenance manuals to be supplied in english/hindi language along with machine diagrams;	
	2) List of equipment and procedures required for local calibration and routine maintenance;	
	3) Service and operation manuals (original and copy) to be provided;	

	<p>5) Certificate of calibration and inspection"</p> <p>10.2 Other accompanying documents List of important spares and accessories, with their part numbers and cost;</p> <p>11 NOTES</p> <p>11.1 Service Support Contact details (Hierarchy Wise; including a toll free/landline number) "Contact details of manufacturer, supplier and local service agent to be provided; Any Contract (AMC/CMC/add-hoc) to be declared by the manufacturer."</p> <p>11.2 Recommendations or warnings any warning signs would be adequately displayed</p>
Items required for providing RMNCHA services	
Weighing Scale, Infant (10 Kg)	<ul style="list-style-type: none"> • Table top, light and portable, • Built in rechargeable battery, • Easy to clean baby tray (acrylic), • Zero weight adjustment facility, • Quick, clear digital read outs with LCD display • Measurement does not change with position of baby on the pan; • Provision to measure the height of the baby in its laying position. • Accuracy: 10g, resolution: 1g, limit: 10gm – 10kg • Settings-Auto setting to 0.00 once a the machine is switched on or when no external weight has been put on <p>Dimension :Base: 300mm x 265mm x 85mm, Pan: 510mm x 300mm x 85mm/As per IS standard</p> <p>Power Requirements-230 V AC & Battery operated-6V, one hour backup</p> <p>The Scale should be as per BIS specifications.</p> <p>The scale should have CE/USFDA certified.</p> <p>Should have model approval from Legal Metrology Dept., Govt. of India.</p> <p>The manufacturer shall have the valid license and should have model approval by the legal metrological Deptt. And the weighing scale must be stamped by the by legalmetrologicalDeptt.</p>
Vulsellum Uterine	Vulsellum Uterine Forceps curved 25.5 cm
Cusco's/Graves Speculum vaginal bi-valve	Cusco's/Graves Speculum vaginal bi-valve small size
Sims retractor/depressor	Sims retractor/depressor small size
Sims Speculum vaginal double ended ISS Medium	Sims Speculum vaginal double ended ISS Medium size
Uterine Sound Graduated	Uterine Sound Graduated 10-12"
Cord cutting Scissors	Cord cutting Scissors- Size 6 inch double action jaw with round handle. Blunt, curved on flat, 160 mm ss
Foetal Doppler	<p>A portable, hand-held, battery-powered device assembly consisting of a measuring and display unit and an attached probe or interchangeable probes designed to noninvasively detect foetal heart beats using ultrasound/Doppler technology.</p> <ul style="list-style-type: none"> • Water proof probes of 2MHz & 3MHz frequency. • Ultra sound Intensity <10mw/ cm², • Auto Shut Of Facility to save Battery Power • Built –in Speaker, Volume Control Facility and Audio Output for Ear Phone • Heart Rate Range should be from 50 to 200 bpm with accuracy of + /-2%, • Should be Water Proof Body, Should have Facility for FHR Data transfer to PC. • LCD display <p>Power Requirements AA batteries</p>

	<p>Battery operated AA battery type; Minimum Battery Time of 300 minutes.</p> <p>Accessories:</p> <ul style="list-style-type: none"> ▪ AA battery(rechargeable)-2nos ▪ 2MHz probe-1no <p>STANDARDS AND SAFETY:</p> <ul style="list-style-type: none"> ▪ USFDA or CE(Notified) or UL approved product. ▪ Type B or BF, Performance and safety standards (specific to the device type) ▪ Shall meet IEC-60601-1-2:2007 Medical electrical equipment -- Part 1-2: General requirements for basic safety and essential performance ▪ Local and/or international Manufacturer should be ISO 13485 certified
Suction Machine	<p>Technical Specification</p> <p>0-760 mm Hg \pm 10 regulable 1/4 HP, single phase motor flutter free vacuum control knob Wide mouthed 1 LITRE (Polycarbonate) with self-sealing bungs and mechanical over flow safety device. Dimensions (metric) : Portable Table top Noise (in dBA) 50 dB A \pm 3 Accessories & Spares Collection container & its cap, suction tube tips, a vacuum gauge and control knob.</p> <ul style="list-style-type: none"> • Tubing: 8 mm ID x 2 mtr (PVC) • 1 It polycarbonate jar of 1nos <p>Quality Standard: Quoted model should be USFDA /CE certified, ISO 13485:2003; ISO 10079-1- 1999</p>
Ambu Bag (Paediatric size) with Baby mask	<ul style="list-style-type: none"> • Manual resuscitator with transparent face-mask • Child models (750ml, & 500ml bag capacity); • Standard 15/22 mm Swivel connector allows connections to all common masks Endotracheal Tubes; • Provision to give supplemented oxygen-by-oxygen reservoir providing 100% oxygen; • Non-re breathing valve enabling the patient to inspire oxygen from the reservoir bag. • Should be single hand opera table • Should be easy to dissemble for cleaning and disinfection • Should have pressure release valve at 40cm H2O • Should have silicone oxygen tube 2m length. • 10. It should be upto 40 times autoclavable including bag and washers. • The bag should be made of soft silicone material. • Self-Inflating Resuscitator bag should be of medical grade silicone rubber. • The reservoir should be a PVC bag of 600ml capacity 500ml bag capacity and 1000ml for 750ml bag capacity. <p>1 Accessories (mandatory):- Silicon bellows, Non Rebreathing Valve, 2 meter oxygen tube, Guedel Airway sizes viz 0 and 1, Neonatal Mask of 3 sizes viz 00, 0 and 1</p> <p>STANDARDS AND SAFETY ISO 13485; Manufacturer / supplier should have ISO certificate for quality standard. Should be USFDA / CE (From notified body) approved product or BIS certified should meet ISO 10651-4 standard requirement</p>

Items required for providing Speciality services	
Oral Health	
Interdental cleaning aids	Wooden/plastic Triangular Sticks Interproximal Brushes
Dental Probe	Single Ended with round handle.Made of SS,Handle of size 12mm, and Graduated probe.CPI TN/UNC15 typemade of stainless still 410 /420 grade.
Universal tooth extractor	Dental Forceps of standard size foradult use . Straight curvature with Serrated work surface area. Made of Stainless Steel 410 grade. Instrument handle is of Englishparten. The set shall be consists of 12 items of universal dimensions.
ENT	
Torch	LED focusing torch with chrome/steel ribbed body (medium size) with battery
Tongue Depressor	Wooden flat disposable toungedepressor. Box size:100/Box
Mouth Gag	Size-5", Finger ring instrument with grip & locking system.Blades of 1" long &1/4" wide.
Mouth Mirror	Angular mirror-2 piecesTo provide indirect vision To retract lips, cheeks, and tongue To reflect light into the mouth.Accurate image from flat surface mirrors, image magnified with concave mirrors. Size of 14mm -22 mm of Plane size.StainlessSteel.Fog free with Flat/round ribbed handle. The mirror shall be made of fiber glass and the handle shall be made of stainless steel 410/420 grade
Tuning fork	Nickel-plated steel, material thickness 8 mm, Frequency: 128 Hz / 512 Hz
Nasal Speculum (St. Claire's)*	Nasal Speculum of length 3" having two 5mm wide x 11mm long blades.
Ear Speculum – metallic, dull finish	Ear Speculum – metallic, dull finish
Jobson-Horne probe	Jobson-Horne probe-Curette loop at one end and threaded section at the other end for holding cotton wool Manufactured from carbon filled nylon material to provide better strength and flexibility.
Otoscope	Otoscope <ul style="list-style-type: none"> • GMDN name: Otoscope <ul style="list-style-type: none"> • Clinical purpose: An otoscope or auriscope is a hand-held and battery powered device containing illumination and viewing optics medical device which is used to look into the ears. Health care providers use otoscopes to screen for illness during regular check-ups and also to investigate ear symptoms. An otoscope potentially gives a view of the ear canal and tympanic membrane, or eardrum. • Used by clinical department/ ward: ENT • Technical characteristics (specific to this type of device): <ul style="list-style-type: none"> • Battery (3.5v) operated high efficiency Fiber optic LED otoscope with detachable head and handle with high quality optics. • The viewing window with 3x magnification. • Should have on/off button on the handle for illumination, the handle should be made of Solid metal- chrome slip type shock proof. • The light should have minimum colour temperature of 4000k with CRI >90 for Bright and homogeneous illumination with excellent colour rendering. • Should have rotating knob to control the intensity of the otoscope. • The LED lamp life should be more than 10000 hrs. • User's interface: Manual • Software and/or standard of communication (where ever required) :NA

- **PHYSICAL CHARACTERISTICS**
 - Dimensions (metric): Hand Held Portable
 - Weight (lbs, kg): NA
 - Configuration : NA
 - Noise (in dBA) : NA
 - Heat dissipation: NA
 - Mobility, portability : Handheld device
- **ENERGY SOURCE (electricity)**
 - Power Requirements : NA
 - Battery operated : Yes
 - Tolerance (to variations, shutdowns): NA
 - Protection : NA
 - Power consumption : NA
- **ACCESSORIES, SPARE PARTS, CONSUMABLES**
 - Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables / reagents (open, closed system)
 - ✓ Battery -2nos
 - ✓ Reusable EAR specula of 2mm, 3mm, and 4mm three from each. The specula should be autoclavable.
 - ✓ Storage case (rigid and steady)
- **ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS:**
 - Atmosphere / Ambiance (air conditioning, humidity, dust ...)
 - ✓ Operating condition: Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90% in ideal circumstances.
 - ✓ Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%.
 - User's care, Cleaning, Disinfection & Sterility issues Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover.
- **STANDARDS AND SAFETY**
 - Certificates (pre-market, sanitary, ..); Performance and safety standards (specific to the device type); Local and/or international
 - ✓ Product should be USFDA/CE approved
 - ✓ Should have IEC 60601-1/IEC 60601-1-2/CE (EU) certificate;
 - ✓ Manufacturer / supplier should have ISO 13485 certificate for quality standard;
- **TRAINING AND INSTALLATION**
 - Pre-installation requirements: nature, values, quality, tolerance: NA
 - Requirements for sign-off Certificate of calibration and inspection from the manufacturer
 - Training of staff (medical, paramedical, technicians)
 - ✓ Training of users on operation and basic maintenance;
 - ✓ Advanced maintenance tasks required shall be documented

	<ul style="list-style-type: none"> • WARRANTY AND MAINTENANCE <ul style="list-style-type: none"> • Warranty: 3 years including bulb • Maintenance tasks <ul style="list-style-type: none"> ✓ Maintenance manual detailing; ✓ Complete maintenance schedule; • Service contract clauses, including prices: <ul style="list-style-type: none"> ✓ The spare price list of all spares and accessories required for maintenance and repairs in future after guarantee / warranty period should be attached. ✓ Free servicing (min. 2/year) during warranty period • DOCUMENTATION <ul style="list-style-type: none"> • Operating manuals, service manuals, other manuals Should provide 2 sets(hardcopy) of:- <ul style="list-style-type: none"> ✓ User, technical, maintenance and service manuals to be supplied along with machine diagrams; ✓ List of equipment and procedures required for local calibration and routine maintenance; ✓ Certificate of calibration and inspection; • Other accompanying documents List of important spares and accessories, with their part numbers and cost; • NOTES <ul style="list-style-type: none"> • 11.1 Service Support Contact details (Hierarchy Wise; including a toll free/landline number):Contact details of manufacturer, supplier and local service agent to be provided; • Any Contract (AMC/CMC/add-hoc) to be declared by the manufacturer; • Recommendations or warnings: Any warning signs would be adequately displayed
--	--

NON Communicable Diseases (NCD)

Surgical Instruments	<p>Quality standard (Applicable to all surgical instruments):Instruments should be made up of stainless steel medical grade AISI 410 & 420.Test reports should be submitted in the technical bid.</p> <p>Part No. and the CE Mark must be engraved/Embossed on the instrument.</p> <p>Sample demonstration</p> <p>Instrument should cover 2 years replacement warrantee.</p> <p>All the instruments should be autoclavable</p>
Vulsellum	Vulsellum Uterine Forceps curved 25.5 cm
Cusco's/Graves Speculum	Cusco's/Graves Speculum vaginal bi-valve small,
Cusco's/Graves Speculum	Cusco's/Graves Speculum vaginal bi-valve medium
Cusco's/Graves Speculum	Cusco's/Graves Speculum vaginal bi-valve large
Sims retractor/depressor	Sims retractor/depressor
Sims Speculum	Sims Speculum vaginal double ended ISS Medium
Uterine Sound Graduated	Uterine Sound Graduated
Cord cutting Scissors	Cord cutting Scissors, Blunt, curved on flat, 160 mm ss
Episiotomy Scissors	Episiotomy Scissors (1cm), curved artery (Large), curved artery forceps small (12cm), 12" spong holding forceps (27/26cm), tooth dissecting forceps (17cm) needle holder of tungsten carbide cuced tip (20.5cm)
Vaccine Carrier	
Ice pack box	
Foetoscope	Binaural and binyl coated headrest 23inch Y-tubing 29inch overall
Tracking Bag and Tickler Box (Immunization)	Tracking Bag and Tickler Box (Immunization)

Hee

Oral Health

Interdental cleaning aids	
Dental Probe	
Basin 825 ml. Ss (Stainless Steel)	Basin of 825 ml. Ss (Stainless Steel)
Basin deep (capacity 6 litre)	SS Basin square/rectangular shaped of capacity 6liter.
Tray instrument/Dressing with cover 310 x 195x63mm SS,	Instrument Tray with Cover Made of 304 grade Stainless Steel Size: 310 x 195x63mm Manufacturer should be ISO13485 approved Product should be BIS/CE approved
Dressing Drum with cover 0.945 litres stainless steel	<ul style="list-style-type: none"> • Should be made of joint-less stainless steel of 304 grade steel of 0.5mm thickness. • Should have perforated body. • Should have chain locking with clamp to open or close the perforated body. • Size : 0.945 litres • Manufacturer should be ISO13485 approved • Product should be BIS/CE approved

ENT

Flashlight/Torch Box-type pre-focused (4 cell)	
Tongue Depressor(wooden:100/pack)	Wooden specula-1 packet of 100 specula
Mouth Gag	
Mouth Mirror	Angular mirror-2 piecesTo provide indirect vision To retract lips, cheeks, and tongue To reflect lightinto the mouth.Accurate image from flat surface mirrors, image magnified with concave mirrors. Size of 14mm -22 mm of Plane size.StainlessSteel.Fog free with Flat/round ribbed handle. The mirror shall be made of fiber glass and the handle shall be made of stainless steel 410/420 grade
Tuning fork	Nickel-plated steel, material thickness 8 mm, Frequency: 128 Hz / 512 Hz
Nasal Speculum (St. Claire's)*	NA
App and headphones for App-based Audiometry *	NA
Ear Speculum – metallic, dull finish	Ear Speculum – metallic, dull finish
Jobson-Horne probe	Jobson-Horne probe-Curette loop at one end and threaded section at the other end for holding cotton wool Manufactured from carbon filled nylon material to providebetter strength and flexibility.
Eustachian Catheter	Metallic Eustachian Catheter of 2sizes

Communicable diseases

Whole Blood Finger Prick HIV Rapid Test and STI Screening Test each	<p>Intended of Use: The assay should be able to detect antibodies of HIV1, HIV2 and all the subtypes by detection of antibodies by the agglutination/ Enzyme</p> <p>Should be 3rd generation:</p> <ol style="list-style-type: none"> 1. The assay should have sensitivity of 100% or more and specificity of 100% or more as per data from an identified national reference laboratory. 2. The assay should have solid phase/ particles coated with synthetic and/ or recombination or both types of antigens of HIV1 & HIV2. 3. Total procedure time should not be more than 30 minutes. 4. The manufacturers should ensure that: <ol style="list-style-type: none"> d) The test kit should be packed such that there is a provision to conduct single test at a time; e) The assay components should include HIV positive and negative serum controls sufficient for conducting 20% of the tests (10% negative and 10% positive controls); and f) The pack size of HIV rapid test kits should be 30 tests per Kit. <ul style="list-style-type: none"> ➤ The manufacturer should be ISO 13485 certified. ➤ The strips should be USFDA/CE (IVD) approved. ➤ The strips should be DCGI approved.
---	---

Ophthalmic services

Snellens vision chart	Snellens vision chart
Near vision chart	Near vision chart

Clinical Material, tools and equipment

Surgical Instruments	<p>Quality standard(Applicable to all surgical instruments):Instruments should be made up of stainless steel medical grade AISI 410 & 420.Test reports should be submitted in the technical bid.</p> <p>Part No. and the CE Mark must be engraved/Embossed on the instrument.</p> <p>Sample demonstration</p> <p>Instrument should cover 2 years replacement warrantee.</p> <p>All the instruments should be autoclavable</p>
Surgical Scissors straight 140 mm, ss	Scissors:straight ,double action blade, length of :140 mm .
Sphygmomanometer Aneroid 300 mm with cuff	<p>Technical Specification of BP Apparatus(Aneroid)</p> <ol style="list-style-type: none"> 1. Corrosion resistant shock proof body, chrome plated metal/ stainless steel pressure control valve, scale 0-300 mm hg with accuracy of +/- 3mmHg 2. Air release at closed lap with maximum 4mmHg/Minute. 3. Manual setting of deflation possible upto 2/3mm Hg/sec. From 260mmHg To 15mm Hg in a maximum deflation time of 10 seconds. 4. Gauge's background in white colour. 5. Graduated scale for ever/ 2mmhg, every 10 units and every 20 units. <p>Nylon straps cuff with pouch, latex bulb with completely chromium plated valve with regulation of vent-hole air by screw valve.</p> <p>The cuff is inflated just to fit in the limb for which an inflation bulb is used to control the air pressure within the cuff.</p> <p>The rubber tubes used should have an internal diameter of 3 ± 0.5mm and the external diameter should not be less than 8mm; The dial manometer with diameter of 50 mm-60mm</p> <p>Accessories (mandatory, standard, optional)-adult arm cuffs of size medium & large and paediatric size, inflation bulb, tubing</p> <p>STANDARDS AND SAFETY</p> <p>Manufacturer should be ISO13485; should be USFDA, CE, BIS or UL approved product</p>
Kelly's Forceps	Kelly's hemostat Forceps straight 140 mm
Cheatle's Forceps with Holder	Cheatle's Forceps with SS Holder
Sponge holder	Sponge holding forceps
Plain Escame	Plain Escame

Tooth Forceps	Tooth Forceps
Needle Holder	Needle holder -8inch
Suture needle straight -10	Suture needle straight -10
Suture needle curved	Suture needle curved
Kidney tray	Kidney tray,8"
Artery Forceps, straight, 160mm Stainless steel	Artery Forceps, straight, 160mm Stainless steel
Dressing Forceps (spring type), 160 mm, stainless steel	Dressing Forceps (spring type), 160 mm, stainless steel
Clinical Thermometer oral & rectal	<p>Range of temperature measurement 320C- 420 (89.60F-109.40F). Can be calibrated in both centigrade and Fahrenheit, but if only one option is available, then Fahrenheit is preferable. Buzzer signal function. Takes 10-15 seconds to measure temperature. Can be used in the armpit/axilla, orally and rectally. Accuracy of temperature ± 0.1degC and ± 0.2 F. User's interface :LCD display Manufacturer should be ISO13485 approved Product should be BIS/CE approved</p>
Talquist Hb scale	
Stethoscope	<p>Stethoscope of standard size, chromium plated metal binaural, V rubber tube in one piece. Rotating piper fitting for both flip functions. Doublehead paediatric & Adult stethoscope.</p> <ul style="list-style-type: none"> • Extra-soft, replaceable and pivot able ear-tips for perfect sealing at the ear canal. • Designed with Precision chest-piece made of stainless steel/ chromed brass . <p>Good quality diaphragm of minimum -\varnothing-45mm</p> <ul style="list-style-type: none"> • High quality membrane for precise acoustics with non-chill rims for improved adaptation on the skin and for excellent sound transmission. • Length should be 27" to 29 with preferable colour -black. • The Y-tube should be made of Latex-free treated rubber. <p>Easy to dismantle, and therefore to clean and disinfect. Manufacturer should be ISO13485 approved Product should be BIS/CE approved</p>
Hub Cutter and Needle Destroyer	<ul style="list-style-type: none"> • Should be lightweight, portable & compact. • Housing should be moulded type, shock proof and made of ABS plastic/Stainless steel of 304 Grade. • Should be provided with removable discharge tray for easy disposal of syringe hubs. • Should have provision to burn the needle and cut the syringe tip. • Should have high Carbon Steel cutter to cut the syringe tips. • Should able to cut and destroy the needle up to 18G. • Should able to destroy minimum of 5 injection needles on continuous operation. • Should have heavy duty transformer. • Should have power ON/OFF switch with visual indication. • Should be properly insulated for protection from electric hazards. • Should have fuse protection with 5no.of fuse to be supplied of adequate rating. <p>Power Supply: Power supply should be 220-240 V AC, 50Hz with Indian plug. Manufacturer should be ISO13485 approved Product should be BIS/CE approved</p>

Suction Machine	<p>Technical Specification 0-760 mm Hg \pm 10 regulable 1/2 HP; single phase 1440 RPM motor flutter free vacuum control knob Wide mouthed 2 x 2 LITRE (Polycarbonate) with self-sealing bungs and mechanical over flow safety device. Dimensions (metric) Max: 43 x 30 x 68 cms Weight (lbs, kg) Max: 27Kg Noise (in dBA) 50 dB A \pm 3 Accessories & Spares Collection container & its cap, suction tube tips, a vacuum gauge and control knob. 1. Tubing: 8 mm ID x 2 mtr (PVC) 2. 2 lt polycarbonate jar of 2nos Quality Standard: Quoted model should be USFDA /CE certified, ISO 13485:2003; ISO 10079-1- 1999</p>
Oxygen Administration Equipment	<p>Oxygen Concentrator: Flow rate: 0-5 LPM, Oxygen purity \geq 93%. O₂ delivery pressure: minimum: 0.03 to 0.07Mpa (4.35-10.15 PSI) Atomising pellet (ml/min.) \geq 0.5, uninterrupted flow of oxygen. Low pressure alarm, high pressure alarm and power failure alarm. The unit should have inbuilt Oxygensensing device (OSD) to monitor the purity of produced oxygen. Unit capable for supplying oxygen to two outlets simultaneously using two independent flow meters. (0-5LPM of each flow meter) Should be capable of providing minimum 12 hours of continuous operation The unit should have front panel access to reset switch Dimensions (metric)-Max spec: 640 mm (H) x 410 mm (W) x 410 mm (D) Weight (lbs, kg)-max 30 Kg. Noise (in dBA)-\leq50 db Power Requirements-230 \pm 10% VAC, 50 Hz, 2 amps Accessories (mandatory, standard, optional)- Humidifier Bottles (-4nos, power cord- 1no Consumables / reagents (open, closed system)-Nasal Cannula with extension tubing-2 nos; Gross particle cabinet filter, compressor intake filter and bacterial filter of 0.8-1.0 micron; geolite crystal. STANDARDS AND SAFETY The quoted model should be CE(from notified body) or US FDA approved and company should be ISO 13485 certified; and shall meet IEC60601-1, IEC 60601-1-2 standard requirements; and comply with ISO 15001-2010.</p>
Measuring Tape	<p>Flexible tape can measure round or straight objects Marked with inches, centimeter and meter Tape is 1/4 inch wide by 60 inches long; made of fibre glass for strength and long life Calibration should be as per CE/BIS standard. Manufacturer should be ISO certified.</p>
I/V Stand	<p>Overall approx. size: height - 150cm-230 cm (with telescopic adjustable height) Main Frame: Strong & Sturdy stainless steel tubular construction mounted on four pronged tubular/rectangular base fitted with five swivel rust proof castors of 50mm diameter. Stainless steel rod with double hooks All the Stainless Steel should be of 304 grade Should be pre-treated and epoxy coated finish.</p>
Artery Forceps-Curved	Artery Forceps-Curved

BP Apparatus (Digital)	<p>Technical Specification of BP Apparatus(Aneroid) Table top automatic blood pressure instrument for upper-arm measurement. Automatic pumping action for optimum inflation 3digit LCD display with back light. Measurement Principle: Oscilometric. Evaluation of blood pressure in accordance with WHO. With universal-cuff for arm circumference 22-42 cm. With carrying case, batteries and blood pressure. Measurement scale 0-300 mm hg with accuracy of ± 3mmHg Single button</p> <p>Accessories (mandatory, standard, optional)-adult arm cuffs of size medium & large and pediatric size, inflation bulb, tubing</p> <p>STANDARDS AND SAFETY Manufacturer should be ISO13485; should be USFDA, CE, BIS or UL approved product</p>
Digital Thermometer	<p>Range of temperature measurement 320C- 420 (89.60F-109.40F). Can be calibrated in both centigrade and Fahrenheit, but if only one option is available, then Fahrenheit is preferable. Buzzer signal function. Takes 10-15 seconds to measure temperature. Can be used in the armpit/axilla, orally and rectally. Accuracy of temperature ± 0.1degC and ± 0.2 F. User's interface :LCD display Manufacturer should be ISO13485 approved Product should be BIS/CE approved</p>
Examination Lamp	<ol style="list-style-type: none"> 1) Source of Light: LED light 2) Illumination(Ix) should be LED 3) Minimum 25,000 Lux at a working distance of .5m 4) Radial and axial movement of the lamp 5) Colour temperature: minimum 4000K 6) Minimum Diameter of the spot 5cm 7) Flexible Light pipe for easy positioning of minimum length of 1meter. 8) Lamp Life of minimum 30000 hrs 9) CRI>90 10) Power Requirements-Recharging unit: Input voltage- 220V-240V AC, 50Hz <p>Should be USFDA/CE approved model. Manufacturer should be ISO 13485 certified. Electrical safety conforms to the standards for electrical safety IEC 60601-1General requirements (or equivalent BIS Standard)</p>
Weighing Scale Adult (Digital)	
Oxygen Cylinder with trolley	OSMCI
Stadiometer	<ul style="list-style-type: none"> • The measuring rod can be dismantled into several pieces and can be set easily. • The scale must be printed along the side of the measuring rod. • Measuring range (Both in cm & inch) : 20-205 cm and 8 - 81". • Graduation of measuring rod : 1mm / 8inch. • The structure should be made of ABS plastic. The product should be CE certified (certificate to be submitted intechinical bid) <p>Warranty : 1 Year</p>
Gauze Cutting Scissors Straight	Gauze Cutting Scissors Straight
Kits for testing residual chlorine in drinking water	<p>Measurement parameter: Chlorine Sample type: drinking water, wastewater, pool and spa, industrial process water. Method: Dip strip and comparator chart on the bottle. Measurement range: 0 - 10 Cl2 Pack Size:50/bottle Manufacturer should be ISO certified.</p>

Instrument Steriliser Electrical

- Electrically Operated
- Size Ideally: 24" x 8" x 6"
- Should be electrically operated on 230volt, 50Hz with appropriate load
- Should have replaceable immersion type heater conforming to IS-4159/2000 duly BIS mark and conforming to safety requirements as per IS-0320-2-2001-1992
- Body should be made of IS-304 grade steel (test report certificate from independent laboratory should be submitted with technical Bid)
- Power supply- power input to be 220-240VAC, 50Hz fitted with Indian plug.
- Should be IEC marked approved.

Pulse Oxymeter

1. Should have plethysmographic wave form with numeric display for SPO2 and Heart rate on
2. LCD/TFT display.
3. Should have a SPO2 range of 0 to 100%.
4. Should have SPO2 accuracy of $\pm 2\%$.
5. Should provide bar graph for pulse strength.
6. Audio and visual alarm for both upper and lower SPO2. Heart rate.
7. Should provide with adult reusable finger probe with technology from standard reputed companies.
8. Beep sound and alarm sound should have separate volume control
9. Should have a minimum of 2 hours back-up time.
10. Should be a portable, light weight and desktop model. 10. Should work with input 200 to 240Vac 50 Hz supply.
11. Should have safety certificate from a competent authority CE / FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid

RADIANT WARMER

Description of Function:

A radiant warmer is used to keep the patient's core temperature stable at 37°C.

Operational Requirements:

It should be microprocessor controlled radiant warmer with manual and servo options

Technical Specifications:

1. Mobile newborn **Servo Control as well as Manual Mode** radiant warmer with detachable Basinet with fixed-height.
2. Antistatic castors (10cm dia, 3.5cm width), 2 with breaks

4. Overhead light: 1 x **a t l e a s t** 50W halogen spot, with **separate On -Off Switch**

5. Should have **facility** to support 10 L oxygencylinder.

6. Ceramic/ Calrod heating element **at least 600 Watt** : emitter with parabolic reflector and protected by metal grid Control unit allows skin (**No Air**) temperature preset (LED indicator) and drives radiant heater output (Servo and Manual)

7. Integrated timer: 30sec to 59 min, with count-up and count-down feature

8. Temperature range, skin: 30 to 39°C (user pre-settable)

9. Monitoring of skin temperature by means of sensor, range: 30 to 39°C

10. Heater output: 0 to 100 % **with display of Heat output.**

Temperature stabilization ability should be with an accuracy of + 0.5°C.

Control unit: audiovisual alarms according to timer and temperature presets avoiding overheating.

Digital Display systems errors, Alarms including Probe Failure, skin temperature High and Low, Power Failure and Heater Failure. Alarms should be audio as well as Visual

Basinet

1. The Basinet should have tilting facility with + 15deg -30deg with locking.

2. Basinet surface made up of **Polycarbonate (Transparent)** with mattress

3. Mattress-padding: foam density approx. 21 - 25 kg /m³

4. Mattress cover: removable with zipper, waterproof, washable, resistant to cleaning with chlorine based solution and flame retardant (**Certificate of FlameRetardant**

Property must be submitted from the manufacturer of Mattress)

1. Side boards transparent **Polycarbonate**, drop down and lockable

2. Under basinet 2 storage drawers of roller sliding type.

3. Side rails **with platform** allow for mounting of accessories and attachment for at least 2 nos syringe pump

Supplied with:

1. 1 x mattress

2. 2x skin temperature probe (1 year replacement warranty)

3. 1 x spare heating element

4. 1 x spare set of fuses

5. 2x Observation lamps

Power Supply:

Power input to be 220-240 VAC, 50Hz fitted with Indian plug.

Phototherapy Unit

- It should be LED phototherapy with high irradiance 35-45 microwatt per sq. cm perm
- Optimal 450-460 nm wavelength ensures breakdown of bilirubin powder
- It should be of optical design helps ensure uniform light distribution and increased surface area to cover the baby from head to toe.
- It should have timers form lamp hour (non settable) and therapy time
- It should have led lamp life at least 20000 hour
- The noise level should be less than 40db
- It should multi directional base for ease in positioning
- It should be provided with wheel base system (antistatic castors of 10cm dia, 3.5cm width) 2 with breaks for easy transportation.

Supplied with 10 Nos. of covered shields and mesh shields

- Power supply input to be 220-240VAC, 50Hz fitted with Indianplug

Ultrasound Colour Doppler

GENERAL

1. USE

Clinical purpose:

Doppler ultrasonography is a non-invasive diagnostic procedure that changes sound waves into an image that can be viewed on a monitor an ultrasonic technique for detecting anatomic details by color coding of velocity shifts. In cardiography blood flowing in one direction appears red, and blood flowing in the opposite direction appears blue. The technique can also indicate the velocity of red blood corpuscles moving through the circulatory system, which makes it possible to quantify the flow, measure the pressures within the heart chambers, and calculate the stroke volume. In laparoscopy, Doppler colour flow allows for rapid identification and differentiation of ducts and valves in the viscera, particularly in detection and diagnosis of pancreatic and liver tumours' and colorectal liver metastases.

Used by clinical department/ward: O&G/Radiology diagnosticlaboratories.

TECHNICAL

2. TECHNICALCHARACTERISTICS

Technical characteristics (specific to this type ofdevice)

The system should be state art with full Digital Technology & should be capable of whole body sonography& other application for adult &paediatrics (Infants & Neonates) which includes abdominal, Obs/Gyn, Endovascular, Peripheral vascular, transvaginal, transrectal& small parts.

- 1) The system should incorporate facility for high resolution 2D, 3D, M mode, PW color imaging, Power Doppler Anglo ImagingModes.
- 2) The system should have more than 20000 DigitalChannels
- 3) The system should have 256 Grey shade ormore.
- 4) The system should have capability of triplex display in real time with allprobes.
- 5) The system should have a very high frame rate of 700 frames per second ormore.
- 6) The system should have Harmonic imaging.The system shall support Tissue Harmonic Imaging capability on phased, linear, 3D and curved arraytransducers.
- 7) The system should have advance image processing algorithms to analyze between targets & artifacts so as to sharpen target anatomy, reduce the sparkle & artifacts to improve imagequality.
- 8) The system shall offer Harmonic Imaging in Power Doppler Imaging mode forimproved sensitivity and specificity in differentiating blood/ agent fromtissue.
- 9) The system should have facility for Zoom(Real-time and Frozen-image) & manipulation of image through pre-processing and post-processing with cine loop viewing image of allmodes.
- 10) System should have disc of at least 500 GB ormore.
- 11) The system should have facility of digital storage & retrieval of B/W &colour imagedata (Both frozen & cine loops) on built in as well as ramble media (CD, DVD) USBport.
- 12) The system should have automatic real time quantification of Doppler parameter like velocity, frequency, time heart rate stop, flow volume, plasticity index, resistivity index, peak velocity, average value, point value, area & diameter flow volumeetc.
- 13) The system should have high dynamic range of minimum 170 dB with scanning depth of30 cm ormore.

Ques

- 14) All transducers (minimum 3) should be broadband width, Frequency range 2 to 12 MHz or more with universal ports for transducer interchange. Two active ports and one one parking port is required.
- 15) System should have 17"/19" HD display with tilt and swivel Facility along with alphanumeric keyboard with illuminating keys and statusfunction.
- 16) Dicom 3.0compatible.
- 17) Review of stored images is desirable.

User's interface Software, Automatic (stages to be displayed or recordable forprinting).

Software and/or standard of communication (where everrequired)

3. PHYSICALCHARACTERISTICS

- Dimensions (metric) :NA
- Weight (lbs, kg):NA
- Configuration: NA
- Noise (in dBA) - Noise-freesystem.
- Heat dissipation - Heat Dissipation: Should maintain nominal Temp and the heatshould be Disbursed through a coolingmechanism.
- Mobility, portability - Certified RoomInstallation.

4. ENERGY SOURCE :(electricity,UPS)

Power Requirements Power unit: Input voltage- 220V-240V AC, 50HzSingle-phase.

Battery operated:No

- Tolerance (to variations, shutdowns):NA
- Protection NA
- Power consumption -NA

5. ACCESSORIES, SPARE PARTS,CONSUMABLES

Accessories (mandatory, standard, optional); Spare parts (main ones);

Consumables/reagents (open, closed system)-Machine should be supplied with following transducers:-

- 1. Broad band convex array transducer with multi-frequency range of 2 to 5 MHz or wider range- 1No.
- 2. Broad band trans-vaginal / trans-rectal probe with multi-frequency range between 5 to 8 MHz or wider range – 1No.

The system should have following documentation devices

- a) B/W Thermal printer of latest model
- b)Glazed thermal paper rolls 50 no. & 5 rim of Glossy papersheet.
- c) Online Ups for power back up of minimum 30minutes

6. ENVIRONMENTAL AND DEPARTMENTALCONSIDERATONS

Atmosphere/Ambiance (air conditioning, humidity,dust...)

- 1) Operating condition: Capable of operating continuously in ambient temperature of 5 to 50 deg C and relative humidity of 15 to 80% in idealcircumstances.
- 2) Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50deg C and relative humidity of 15 to90%.

User's care, Cleaning, Disinfection & Sterilityissues

- 1) Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover.
- 2) Sterilization notrequired.

7. STANDARDS AND SAFETY

Certificates (pre-market, sanitary,); Performance and safety standards (specific to the device type); Local and/or international

1. Should be USFDA / European CE (Notified body) /BIS approved product.
2. Manufacturer should have ISO 13485 certification for quality standards.
3. Electrical safety conforms to the standards for electrical safety IEC 60601- General Requirements (or equivalent BIS Standard)
4. Shall meet internationally recognised for Electromagnetic Compatibility (EMI/EMC) for electromedical equipment: 61326-1.
5. Certified to be compliant with IEC 61010-1, IEC 61010-2-40 for safety.

8. TRAINING AND INSTALLATION

Pre-installation requirements: nature, values, quality, tolerance

- 1) Availability of 5 amp socket;
- 2) Safety and operation check before handover;
- 3) To be installed in a separate room.

Requirements for sign-off Certificate of calibration and inspection of parts from the manufacturer

Training of staff (medical, paramedical, technicians)

- 1) Training of users on operation and basic maintenance for 2 weeks;
- 2) Advanced maintenance tasks required shall be documented

➤ WARRANTY AND MAINTENANCE

Warranty 2 years

Maintenance tasks CMC 3 years 2 PM Visits Annually. All Breakdown calls to be attended within 24 hrs of registration.

Service contract clauses, including prices

The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee/warranty period should be attached;

10. DOCUMENTATION

Operating manuals, service manuals, other manuals Should provide 2 sets (hardcopy and soft-copy) of:-

- 1) User, technical and maintenance manuals to be supplied in English /hindi language along with machine diagrams;
- 2) List of equipment and procedures required for local calibration and routine maintenance;
- 3) Service and operation manuals (original and copy) to be provided;
- 4) Advanced maintenance tasks documentation;
- 5) Certificate of calibration and inspection

Other accompanying documents

List of essential spares and accessories, with their part numbers and cost;

11. NOTES

Service Support Contact details (Hierarchy Wise; including a toll free/landline number) Contact details of manufacturer, supplier and local service agent to be provided; Any Contract (AMC/CMC/add-hoc) to be declared by the manufacturer;

Recommendations or warnings Any warning signs would be adequately displayed

Instruments & Equipments for Family Planning

SLNo.	Name of the item in each Kit with Specification	
1)	IUCD Kit	
1	Sponge Holder 10 inch	1 No.
2	Sims speculum small size	1 No.
3	Sims Speculum medium size	1 No.
4	Allis Forceps 6 inch	2 Nos.
5	Uterine Sound	1 No.
6	Kellys Forceps 12 inch	1 No.
7	Straight Scissor 6 inch	1 No.
2)	PPIUCD Forceps	
3	Minilap Kit	
1	Sponge Holder 10"	2 Nos.
2	Artery Forceps Straight 6"	4 Nos.
3	Artery Forceps Curved 6"	2 Nos.
4	Allis Forceps 6"	4 Nos.
5	Allis Forceps 6"	2 Nos.
6	Right Angled Retractor 6"	1 No.
7	Right Angled Retractor 8"	1 No.
8	Tubal Hook 8"	1 No.
9	Needle Holder 8"	1 No.
10	Plain Forceps 6"	1 No.
11	Tooth Forceps 6"	1 No.
12	Curved Scissor 8"	1 No.
13	Straight Scissor 8"	1 No.
14	Nel Cath 14fr	1 No.
15	BP Handle No.4	1 No.
16	BP Handle Blade No.22	1 No.

4) NSV KIT (Set) (1 Set consists of the following items)

A. Vas Dissecting Forceps: 1 No. - Made of stainless steel, sharp tip, lightweight.

Approximate Dimension and weight are:

Tip angle curvature	: 40 Degree on plane
Inside Surface of blades	: Smooth
Length of blades (Jt. To tip)	: 25 mm
Length (Ratchet to tip)	: 110 mm

Weight : 25-30Gms

B. **Ringed Clamp: 1 No.** - Made of stainless steel, and lightweight.

Approximate Dimension and weight are:

Total Length: (Ratchet to tip) : 25 mm

Inside diameter of clamp ring : 4 mm

Outside diameter of rings : 6.5mm

Clamp ringslit distance : 0.5 mm

Ratchets : 2/3ratchets

C. **Sponge Forceps 10 inch** : 2Nos.

D. **Straight Scissor 6 inch** : 1No

E. **Artery forceps 6 inch** : 1 No

Instruments & Equipments for NIDAN

1. Fully Automated Auto-Analyser:-

Fully automated random access chemistry analyzer bench top with stat sample priority.

2] Through put of 180-200 photometric tests / hour, 200- 270 ISE test/ hour.

3] Bar code system for detection of sample ID and reagent.

4] 40 positions for samples and 40 reagents position with onboard cooling for reagent.

5] Sample volume 2-35 l (0.1 l increments) and reagent volume of 20-400 l.

6] Separate pipette for reagent and sample.

7] Pre-dilution and automatic re-assay with diluted sample / reduced/ increased sample volume should be there.

8] Continuous sample loading provision.

9] Serum plasma, urine, CSF and supernants can be processed in the machine.

10] Sample pipette with liquid level sensor and crash protection, rinsed from inside and outside.

11] Reagent inventory and calculation of remaining reagent volume and test should be available.

12] Reaction temperature $37^{\circ}\text{C} \pm 0.3$.

13] Light source- Halogen tungsten lamp.

14] Calibration principle should be linear, factor, 2 point, point to point, spline, log-logit and exponential.

15] Assay test - End point, Kinetic, Biochromatic, turbid metric, sample blanking and reagent blanking and ISE (Via optional integrated ISE unit).

16] Reusable Pyrex cuvette with minimum volume of 180 l, maximum volume of 500 l with 8 stage cuvette washing system.

17] Inbuilt automatic QC and automatic calibration. Daily, monthly batch QC with data archiving.

18] Complete PC along with easy to operate software should be provided with the analyzer with the storage of > 20,000 patients report with search facility.

19] Input voltage – 100 to 240 Vac. 20] Power consumption < 700w. 21] Warranty for 2 years.

2. Hot Air Oven

1. Should be operated on 230V, 50Hz single phase AC supply and having temperature ranging between 50-200°C

2. Should be made of double walled chamber -Inner made of stainless steel SS 304 grade and powder coated outersurface.

3. Should provide with three heating elements on three sides of the equipment for uniform temperature on all shelves.

4. Should be provided with air circulating fan.

5. Should provide with a variable microprocessor based digital temperature controller with digital display and thermometer should be provided separately.

114

- 6. Should have a minimum chamber size of (L*B*H) 450*450*450 with 2 stainless steel trays with holes.
- 7. Should provide with air ventilations.

3. Lab. Incubator

- 1. Should be operated on 230V, 50Hz single phase AC supply, and having temperature ranging from ambient to 60°C
- 2. Should be double walled with stainless steel inner chamber having a minimum of two inner stainless steel shelves with holes and powder coated outer surface.
- 3. Inner chamber should be fabricated with ribs for adjusting shelves to convenient height.
- 4. Should have a minimum of chamber size of (L*B*H) of 450*450*450mm.
- 5. Should be provided with three side heating elements.
- 6. Should have air circulating fan (Which can be turn ON/OFF on demand) for uniform temperature on all shelves.
- 7. Should have double door with acrylic transparent door.
- 8. Should provide with a microprocessor based digital temperature controller with digital display.
- 9. Should have synthetic rubber gasket at the door.

4. Distilled Water Plant

Quartz distiller. Demountable boiler

Panel box and stand to accommodate regulator and electrical supply, clamps etc

Quality of distillate - pyrogen free, PH- 6.9- 7.0. High purity, low conductivity.

Distilled water should be heavy metal, salts, pyrogen and iron free.

Specific Conductivity at 25 deg C less than 0.4 x 10⁻⁶S/cm

Glass material (or chemical inert material)

Equipment should be thermal shock proof.

Gas vent should be there to remove volatile impurities leaving the condensate free from gaseous impurities

Automatic low water cut off.

Tubing should be made up of good quality rubber (heat resistant).

Wiring of the equipment should be enclosed in Case.

It should have deconcentrator a bleeder device on the evaporation that constantly removes a part of the boiling water from it so that the cumulative concentration of non volatile impurities in the water is prevented

5. Electric Centrifuge table top

Must have wide temperature range (3°C to + 40°C) of operation. • It Should supplied with at least three rotors 1) fixed angle rotor accommodating at least 24x 1.5/2ml tubes (Can go up to a speed of approximately 14500 rpm or 23,000g), 2) fixed angle rotor accommodating at least 6x 15/50ml (can go at a speed of approximately 7000 x g) and 3) a cell culture plate/plate rotor (can go at a speed of approximately 2000 x g). • It should have an option to accelerate and decelerate the speed at various rates. • Noise level should be less than 60 dB. • Must be supplied with compatible wall mountable stabilizer. • Three years warranty and on-site repair services as and when required. • Year-wise Installation details for last 10 years • Technical features described above should be supported by original illustrated catalog, with list of users (with all contact detail), and authentication of vendor's business record in the form of Income Tax return for, at least, of last 3 years.

6. Cell Counter Manual (NC)

It should be a differential cell counter 2. Should provide Blood cell counting and simple calculations including percentage. 3. Each unit counts up to 999 and last unit totalize the different cells. 4. The bell automatically sounds at every 100 5. It should be 6unit-8keys and totaliser 6. It has a dual knob on both ends to facilitate easyresetting.

7. **HotPlates**

- a) Maximum stirring speed-1200 rpm with stepless speed control and good speedstability
- b) Heating Capacity -600W
- c) Hotplate Size -175mmdia.
- d) Supply - 220/240V,50Hz,A.C
- e) Hotplate-Should be chemically resistant to acid andalkali
- f) Top Plate Material - Stainlesssteel
- g) Stirring Unit - Should be enclosed so that corrosive fumes do not enterit.
- h) Controls for both hotplate and stirrer should be provided with suitableindicators.
- i) Necessary electrical cables should beprovided.

Trolley with upper & lower shelves

- Overall approximate dimension: 700 mm L x 450 mm W x 800 mmH.
- Complete Stainless steel (304 grades) tubular frame mounted on four 100 mmdiameter castors with synthetic body two with breaks.
- Two Stainless steel (304 grade) minimum 20 gauge shelves with protective railing onthree sides.

Digital Room Thermometer:

For indoor storage condition - 20-60C, 20-80% RH. All measurement should display in a clear LCD screen. The unit should supply with battery.

Back Rest:

Used to keep patient sitting upright on the bed or on the floor level.
 Easy to adjust to various angles
 Light weight and can be folded
 Portable for carrying around.
 Special nylon netting provided for comfort
 Metal epoxy powder coated

Dental Instruments & Equipments**Compressor**

Power	Speed	Air Displacement	Max Pressure		Tank	N.W	Dimensions
							
KW	R.P.M	L/min	Bar	Psi	L	KG	LxWxH(cm)
0.55	1410	95	7	100	25	33	40x40x53

Dental X-Ray (Tube Head)

Power Supply 230V +- 10%
 X-Ray Tube 70kV, 10mA
 Focal Spot 0.8mm x 0.8mm
 Focus to the Skin Distance 20cm
 Filtration 1.5 – Al
 Lead coated cone and tube head

Dental X-Ray (Wall Model Scissor Arm)

Power Supply 230V +- 10%
 X-Ray Tube 70kV, 10mA
 Focal Spot 0.8mm x 0.8mm
 Focus to the Skin Distance 20cm
 Filtration 1.5 – Al
 Lead coated cone and tube head
 Exposure Time 0.1s to 2.99s
 Anatomic Programmes (Optional) 30 pre-set time with cordless remote
Micro processor base timer with cordless remote for time setting and exposure

Minor oral surgery

Micromotor, straight handpiece, mucoperiosteal elevator, BP handle # 3, chisel, osteotome, mallet, curette, apexo elevator, bone file, rongeur, needle holder, , non toothforecep, tooth forecep, mouth prop, stitch cutting scissor, dissecting scissor, biopsy forecep, fissure bur # 701, round bur # 2.

Restoration/ filling

Composite kit with light source &teflon coated instruments.
 Fissure sealant, amalgam alloy, mercury, dappen dish, mortar, pestle, carrier, plugger, carver, excavator, ball burnisher, amalgamtor
 GIC fuji type – II, IX, Zinc oxide, eugenol, cement carrier, spatula, glass slab, plugger, calcium hydroxide.

RCT

Airtorhandpiece, straight fissure bur, round bur, file, reamer ,broach , sodium hypochlorite, hydrogen peroxide, electric pulp tester, RVG unit

Scaling

Ultrasonic scaler

Prosthesis

Perforated tray, green stick, acrylic monomer, polymer, impression compound, alginate, bowl spatula, vulcanite bur, round end tapered bur, end cutting bur, flame shaped bur, needle diamond tapered bur.

HBNC Kit

Sl.no.	Name of Items
1	Baby Weighing Scale with sling- <u>eligibility Criteria:</u> Manufacture should be ISO certified. <u>Technical Specification:</u> Should have tough Nylon Plastic Body, Load capacity 0-5 Kgs., Should have colour coded reading scale. Should have zero adjustment, Should have inbuilt overload protection. Graduation should not be more than 100 gms and stamped by the Weights and Measures Department. Scale should be fitted with approx. 3" rod handle with non corrosive metallic ring on top and S shaped hook on bottom for suspending the sling bag. Spring used in scale should be made of heavy duty steel spring, non Corrosive grade II. Sling bag should be made of double stitched tough and tear resistant 100% polyester weight the baby.
2	Digital Thermometer- <u>Eligibility Criteria:</u> Manufacture should be ISO certified. <u>Technical Specification:</u> Digital Thermometer with Fahrenheit and Celsius scale. Safe to use, automatic, no glass, no mercury. Measurement range: 90.0° F to 109.0° F and 32° C to 42°C. Measurement Accuracy: +/- 0.2° F between 98.0° F to 102.0° and 0.1°C between 35°C to 42°C. +/- 0.3°F between 96.4°F to 98.0°F. +/- 0.3° F between 102.0° F to 106.0°F. Should have auto shut off facility. Display should be LCD type. Beeper alarm of approx 10 seconds sounds signal when peak temperature. Should be more than 200 hrs of battery supply. Average measurement time: Oral: 30 sec. Rectal: 30 sec, Auxiliary: 60 Sec. Battery should be LR41 of SR41.
3	Digital Watch- <u>Eligibility Criteria:</u> Manufacturer should be ISO certified. <u>Technical Specification:</u> Should have plastic body. Should battery operated. Should have minutes and second timer with stop watch facility. Should be water resistant. Should have illuminator for clear visibility in dark.
4	HBNC kit Bag(Only Bag)

Sanitary Napkin Incinerator:

Sl.No	Details	Specification
1	Type	WALL MOUNTED Auto Cut-OFF ELECTRICALLY SAFE CEREMIC INSULATED
2	Capacity per cycle	15 TO 20 PADS PER CYCLE
2a	Capacity per day	135 TO 180 PADS PER DAY
3	Cycle Time	1 Hr
4	Housing- External	CRCA STEEL OF 1.2 MM THICKNESS
5	Dimensions (WxDxH) mm	300 x 250 x 600 mm
6	Weight	20 Kg
7	Insulation	Thermal Ceramic Sheet with Glass wool of 4-5 mm thick
8	Wattage	1000 WATT
9	Power Saver	AUTO CUT-OFF PROVIDED
10	Residue Ash	LESS THAN 1 GM PER CYCLE
11	Temperature Cut-off	YES WITH LED DISPLAY
12	Heater	CERAMIC HEATER 1000WATT
13	flue gas pipe provided	YES 2 mtrs flexible with Clamp
14	Safety MCB provided	Circuit breaker

EQUIPMENTS

Equipments for NCD

1. VIA KIT (Visual Inspection with Acetic Acid Kit)

(The kit contains the following items)

I. Cotton Swab	8" Sterile in Single Pack
II. Distilled Water	1 ltr./Bottle
III. Acetic Acid 5%	Glacial Acetic Acid 100ml/Bottle
IV. LED Focusing Torch	LED Focusing Torch Chrome/Steel Ribbed Body (Medium Size) With battery
V. Cusco's Speculum	Vaginal Speculum – Cusco Medium and Small Each (Stainless Steel 410 grade)
VI. Glass Slide	1 packet of 100 Slides
VII. Hand Gloves	Latex Rubber Gloves (Sterile)
VIII. Bag	Good Quality Bag for Storing the above Mentioned items.

2. OVE KIT (Oral Visual Examination Kit)

(The kit contains the following items)

I. Angular Mirror	2 pieces to provide indirect vision to retract lips, cheeks and tongue to reflect light onto the mouth. Accurate image from flat surface mirror, image magnifying with concave mirror. Size 14mm – 22mm of plane size, stainless steel, fog free with flat/round ribbed handle. The mirror shall be made of fiber glass and the handle shall be made of stainless steel 410/420 grade.
II. Hand Gloves	Latex Rubber Gloves (Sterile)
III. LED Focusing Torch	LED Focusing Torch Chrome/Steel Ribbed Body (Medium Size) With battery
IV. Disposable Tongue Depressor (Wooden Spatula)	6 inch in length and flat, thin wooden blades smoothed and rounded at both end. In single sterile pack.
V. Bag	Good Quality Bag for Storing the above mentioned items.

3. Cotton – 100 gms per packet

4. Gauze – Gauze most commonly used by doctors, hospitals 7.5 cm x 10 mtr. Rolled

Alena

5. Examination lamp

Technical characteristics

Technical characteristics (specific to this type of device)

- 1) LED light
- 2) Illumination (lx) should be LED
- 3) Minimum 25,000 Lux at 0.5 meter
- 4) Height Adjustment (mm): ≤ 440
- 5) Radial and axial movement of the lamp
- 6) CRI > 90
- 7) Colour temperature
minimum 4300K

User's interface: Manual

2.3. Software and/ or standard of communication (where ever required): NA

2 Physical characteristics

Dimensions (metric): NA

Weight (lbs, kg): NA

Configuration: NA

Noise (in dBA) : NA

Heat dissipation: Heat Dissipation: Should maintain nominal Temp and the heat should be dispersed through a cooling mechanism

Mobility, portability:

3 Energy Source (electricity)

Power Requirements: Recharging unit: Input voltage- 220V-240V AC, 50Hz

Battery operated: Yes

Tolerance (to variations, shutdowns): NA

Protection: Should have over-charging cut-off with visual symbol.

Power consumption: NA

4. Accessories, Spare parts, consumables

Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables / reagents (open, closed system): NA

5 environmental and Departmental considerations

Atmosphere / Ambiance (air conditioning, humidity, dust...)

- 1) Operating condition: Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90% in ideal circumstances.
- 2) Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%.

User's care, Cleaning, Disinfection & Sterility issues:

- 1) Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover.
- 2) Sterilization not required.

7 Standards and Safety
Certificates (pre-market, sanitary, ...); Performance and safety standards (specific to the device type);
Local and/or international

1. Should be USFDA/CE/BIS and ISO 13485 approved product.

2. Electrical safety conforms to the standards for electrical safety IEC 60601-1 General requirements (or equivalent BIS Standard)
3. Shall meet internationally recognised for Electromagnetic Compatibility (EMC) and Electromagnetic Interference (EMI) for electro medical equipment: IEC 60601-1-2
4. Certified to be compliant with IEC 60601-2-4 for usability.

Local and/or international: Manufacturer / supplier should have ISO certificate for quality standard.

7 Training and installation

Pre-installation requirements: nature, values, quality, tolerance

- 1) Availability of 5 amp socket;
- 2) Safety and operation check before handover;

Requirements for sign-off: Certificate of calibration and inspection from the manufacturer

Training of staff (medical, paramedical, technicians)

- 1) Training of users on operation and basic maintenance;
- 2) Advanced maintenance tasks required shall be documented 9 Warranty and maintenance **8.1. Warranty:** 3 years

Maintenance tasks:

- 1) Maintenance manual detailing;
- 2) Complete maintenance schedule;

Service contract clauses, including prices : The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee / warranty period should be attached;

6. AUTOCLAVE FOR O.T

Technical Specification:

- Vertical Cylindrical steam sterilizers pressure type
- Shall be in SS-304 Grade material for all items.
- The Sterilizer shall be of the size 550(H) x 350(D) mm (approx) with corresponding electric loads.
- Pressure type steam sterilizers of vertical cylindrical type with built in steam generator. The steam generator shall be electrically heated using BIS marked immersion heater having mineral filled sheathed heating elements conforming to IS:4159/2002 and complying with safety requirement as per IS:302-2-201(1992).
- The control will be of independent switch.
- The steam sterilizer shall conform to IS: 3829 Part3/1985, reaffirmed 2001, with amendment 1 & 2 and shall be fitted with only **silicon rubber** door gasket (expansion type).
- All the steel materials shall be made out of **SS-304** Quality steel only.
- The working pressure should be 1.1 to 1.2 Kg/cm² (15-18 PSI).
- This should be equipped with dial pressure gauge 0.30 / 60 PSI, spring loaded safety valve, dead weight type safety valve & steam release valve made of Brass or SS.
- Should be supplied with Two Nos. Dressing Drums (300mm dia), Stainless Steel, and Joint less type.
- Supplied unit must have a pressure test certificate from Govt. Labs/NABL labs.
- Unit must conform to IEC 60601 - 1, IS 3829 (Pressure withstanding).

Power Supply

- Power input to be 220-240VAC, 50Hz fitted with Indian plug

7. Sphygmomanometer

1. Should be Portable mercurial type.
2. Should have ISI mark.
3. Should have ON and OFF provision for mercury reservoir.
4. Should have a measuring range from 0 to 300 mmHg.
5. Should be provided with adult arm cuffs of size medium & large and paediatric cuff.
6. The control valve should have a knurled thumb control device. The leak rate should not exceed 10 mm of mercury per minute.
7. The manometer scale markings and graduations should be permanent and clearly visible and filled with pigments.
8. The internal diameter of the manometer glass tube should be 4.1 ± 0.1 mm and the thickness not less than 2mm.
9. All plastic parts, if any used should not crack, flake, peel or disintegrate in normal use.
10. The inflating rubber bag should be capable of withstanding an internal pressure of 450 mmHg without leaking.
11. The inflating bulb should be soft and should not have any joints or ridges.
12. The mercury used should be clean, double distilled and of 99.9% purity.
13. The fastening arrangements of the cuff should be of hook and loop type (Velcro).
14. The threading and fastening arrangement of the cuff should show no sign of slip or failure when subjected to the maximum test conditions.
15. The rubber tubes used should have an internal diameter of 3 ± 0.5 mm and the external diameter should not be less than 8mm.
16. The tubes should be fitted with male and female luer connectors.
17. The housing case should be of robust design. It should have press to release lock. It should have metal hinges. The tube should be secured with metal screws and clamps. It should have mechanism to hold the lid in right angles and should prevent accidental dropping. All parts should be replaceable in case of breakage.
18. A cleaning brush to clean the manometer tube and a set of spare washers may be provided with each unit.

A. Digital Type:

- Should be inflating, upper arm measurement digital BP apparatus for adult and child.
- The apparatus should measure the Systolic, Diastolic and Pulse rate and same should be displayed on an inbuilt LCD screen.
- Should have auto inflation mechanism for easy measurement.
- Measurement Range: Pressure 10 to 280 mmHg.
- Pulse should be 40 to 180 beats/min
- Measurement Method: Oscillometric Method
- Memory of Last 3 Last measurement
- Should be provided with reusable adult and child arm cuff.
- Accuracy: Pressure of ± 3 mmHg or $\pm 5\%$.

- Should have battery backup for more than 1000 measurements with new alkaline battery (AA Type).
- The instruments should be CE marked (certified to be submitted in technical bid)

B. **Aneroid:**

1. Should be aneroid type
2. Should be shockproof
3. Should be latex free armcuff
4. Light weight: easy to carry
5. Range of BP monitoring: up to 300 M.M. Hg with an accuracy of ± 3 mmHg.
6. The housing of meter should be made of good quality thermoplastic/corrosion insulations.
7. The pressure release valve should permit precise release of pressure and also allow fast deflation.
8. Micro filter must be provided to protect air release valve and measuring system.
9. Should have spoon shaped grip made of stainless steel.
10. The device should be shock resistant
11. Should be supplied with following reusable cuffs: *Child & Adult*.

8. Stethoscope

1. For listening the lung and heart sounds with two ear tips with diaphragms.
2. Extra-Soft, replaceable and pivotable ear tips for perfect sealing at the ear canal.
3. Designed with precision flat chest piece made of stainless steel of 40mm-45mm.
4. High quality membrane for precise acoustics with non-chill rims for improved adaption on the skin and for excellent sound transmission.
5. Length should be 27" to 29"
6. Bell: 23 mm - 25mm
7. Weight: 100-120gm
8. The tube should be made of latex-free rubber.
9. It should conform to IS 3391 standards.

Accessories, spares & Consumable

- Diaphragms
- Ear Tips
- Binural rims

The product should be CE certified (certificate to be submitted in technical bid).

9. Adult Weighing scale

- Sturdy **dial type mechanical** platform weighing machine for adult and children.
- Zero adjustment facility should be there.
- Sensitivity: 500 gm
- Range of weighing: 0-120kg
- The manufacturer shall have the valid manufacturing license and should have model approval by the legal metrological Deptt. and the weighing scale must be stamped by the legal metrological Deptt. In case of distributor.
- ISO 9001 certified manufacturer** (certificate to be submitted). Warranty: 1 Year

5. Hemoglobin Estimation:

Reagent/Chemicals:

- ❖ (N/10) Hydrochloride Solutions (HCL)
- ❖ Pack Size: 500ml/1000ml
- ❖ Packed in a narrow mouth polyethylene bottle.
- ❖ Manufacturer should be ISO 13485 certified
- ❖ Product should be CE certified as per IVD directive

6. Total Leukocytes counts-

Chemicals:

- ❖ WBC Diluting Fluid
- ❖ pH value within 2.00-2.40
- ❖ Concentration:
- ❖ Pack Size: 100ml/500ml
- ❖ Packed in a narrow mouth high density polyethylene bottle.
- ❖ Manufacturer should be ISO13485 certified
- ❖ Product should be CE certified as per IVD directive

7. Different Leucocytes Count

8. Malaria parasite:

1 JSB Stain-I

- i. Methylene Blue (Medicinal) : 0.5 gm
- ii. Sulphuric Acid (H2SO4) 1% : 3 c.c
- iii. Potassium Dichromate (K2Cr2O7): 0.5 gm
- iv. Disodium Hydrogen Phosphate: 3.5 gm Dehydrate (Na2HPO4.2H2O)
- v. Distilled Water: 500 c.c.

2 JSB Stain-II

- i. Eosin Yellow (Water soluble): 1.0 gm
- ii. Distilled water: 500 c.c.

ii) **Packing:** Each bottle of JSB Stain-I & II will contain 125 ml of stain in a glass or plastic bottle.

- ❖ Manufacturer should be ISO13485 certified
- ❖ Product should be CE certified as per IVD directive

5. E.S.R(Erythrocyte Sedimentation Rate):

- ❖ 3.8% Sodium Citrate solution
 - ❖ PH vale lies between 7.8-8.0
 - ❖ Concentration : 3.70%- 3.90%
 - ❖ Pack Size: 100/500ml
 - ❖ Packed in a narrow mouth high density polyethylene bottle.
 - ❖ Manufacturer should be ISO13485 certified
 - ❖ Product should be CE certified as per IVD directive

6. Distilled water.

Laboratory grade distille water
 0.1 micron filtered
 pH value :5-7.5
 Packed in transparent

Basin 825 ml. Ss (Stainless Steel)	Basin of 825 ml. Ss (Stainless Steel)
Basin deep (capacity 6 litre)	SS Basin square/rectangular shaped of capacity 6liter.
Tray instrument/Dressing with cover 310 x 195x63mm SS,	Instrument Tray with Cover Made of 304 grade Stainless Steel Size: 310 x 195x63mm Manufacturer should be ISO13485 approved

	Product should be BIS/CE approved
Dressing Drum with cover 0.945 litres stainless steel	<ul style="list-style-type: none"> • Should be made of joint-less stainless steel of 304 grade steel of 0.5mm thickness. • Should have perforated body. • Should have chain locking with clamp to open or close the perforated body. • Size : 0.945 litres • Manufacturer should be ISO13485 approved • Product should be BIS/CE approved
Hemoglobinometer Digital (strip/micro-cuvette)	<p>It should be a point of care instrument to measure hemoglobin. The unit should have LCD screen for instant display of test result.</p> <ul style="list-style-type: none"> • It should be Factory calibrated as per ICSH (International Council for Standardization in Haematology). Needs no further calibration • Self-checking facility should be there between every measurement • Shelf life of the test strip/cuvette should be minimum 90 days from the opening of the packet / box and at least one year from the date of manufacturing. • Measurement Range: 4gm./dL to 20gm./dL. • Accuracy should be $\geq 96\% CV < 5\%$ • Sample volume; approximately 10 to 15 μL whole blood; capillary or venous blood • Minimum stored result memory :250 results • USB interface facility should be there for transfer of stored results. <p>Soft keys for user operation. It should communicate through mini-USB connector with a Computer/ laptop. Battery operated; The battery should support at least 500 tests. Each device should be supplied with: 1. Cover (Wash Proof) 2. USB Cable for data transfer 3. Other items required for functioning of the machine. The cost of Device, Strips (50 Nos.) & lancets (55 Nos.) should be quoted separately in price BOQ excel format. Operating condition: Capable of operating continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90% in ideal circumstances.</p> <p>Safety & Quality Standard: European CE or USFDA Certified. It should be Factory calibrated as per ICSH (International Council for Standardization in Haematology). The manufacturer should be ISO 13485 certified.</p>
Weighing Scale, Adult 125 kg/280 lb	<p>Sturdy dial type mechanical platform weighing machine for adult and children. Zero adjustment facility should be there. Sensitivity: 500 gm Range of weighing: 0-125kg The manufacturer shall have the valid manufacturing license and should have model approval by the legal metrological Deptt. and the weighing scale must be stamped by the by legal metrological Deptt. ISO. Certified manufacturer (certificate to be submitted). Warranty: 1 Year</p>
Instrument Sterilizer	<p>Electrically operated. Size ideally: 24x8x6 inch Should have replaceable immersion type heater ISI marked. Body should be made of SS-304 grade steel. (Test report certificate from independent laboratory should be submitted with technical bid.) Power Supply Power input to be 220-240VAC, 50Hz fitted with Indian plug Manufacturer should be ISO13485 approved Product should be BIS/CE approved</p>

<p>Sphygmomanometer Aneroid 300 mm with cuff</p>	<p>Technical Specification of BP Apparatus(Aneroid)</p> <ul style="list-style-type: none"> • Corrosion resistant shock proof body, chrome plated metal/ stainless steel pressure control valve, scale 0-300 mm hg with accuracy of +/- 3mmHg • Air release at closed lap with maximum 4mmHg/Minute. • Manual setting of deflation possible upto 2/3mm Hg/sec. From 260mmHg To 15mm Hg in a maximum deflation time of 10 seconds. • Gauge's background in white colour. • Graduated scale for ever/ 2mmhg, every 10 units and every 20units. • Nylon straps cuff with pouch, latex bulb with completely chromium plated valve with regulation of vent-hole air by screw valve. • The cuff is inflated just to fit in the limb for which an inflation bulb is used to control the air pressure within the cuff. • The rubber tubes used should have an internal diameter of 3 ± 0.5mm and the external diameter should not be less than 8mm; The dial manometer with diameter of 50 mm-60mm <p>Accessories (mandatory, standard, optional)-adult arm cuffs of size medium & large and paediatric size, inflation bulb, tubing</p> <p>STANDARDS AND SAFETY Manufacturer should be ISO13485; should be CE/BIS or UL approved product</p>
--	--

<p>Glucometer with strips and lancet</p>	<p style="text-align: center;"><u>GLUCO METER</u></p> <p>Description of Function:</p> <p>A glucose meter (or glucometer) is a medical device for determining the approximate concentration of glucose in the whole blood.</p> <p>Product Quality Standards:</p> <ul style="list-style-type: none"> • Should be USFDA/CE (Notified) of the quoted model • Manufacturer should be ISO certified for quality standards. <p>Technical Specifications</p> <ul style="list-style-type: none"> • Small, portable and user friendly device is required. Blood should not go into the glucometer while measurement. • It should be able to measure whole blood in capillary mode. • Minimum analytical range: 30 – 600 in mg/dL. • Accuracy should be as per International Standard ISO 15197-Requirements for blood-glucose monitoring systems for self-testing in managing diabetes mellitus. • Reproducibility/Precision: +/- 5% • Display should be 43mm± 5 mm measured diagonally. • It should be battery operated electronic system and the battery life should be for at least 1000 tests. • Shelf life of strips: Minimum 12 months at the time of delivery to consignee. • Packing of strips: not more than 50 strips in a pack. Strips should work min. 3 months after opening of strips pack. • Control solution for checking reliability of strips will be supplied free of cost as & when required. • Ready availability of reagent test strips, battery & other consumables across Odisha for at least 5 years. • Machine should be supplied with lancing device of 2nos. • Machine should have 4 yrs. of replacement warranty. <p>Equipment Configuration:</p> <ol style="list-style-type: none"> 1-Glucometer-1no 2-Lancing Device-2no 3 Standard batteries-1Set
--	---

	<p>4-Carrying case-1 5-Instruction manual 6-Warranty card</p> <p>Consumables:</p> <p>1. 115 nos. single use auto-disabled lancets in multi packs. 2. Test strips -100 nos. in two packs 3. Control strip.</p>
Ophthalmic services	
Snellen vision chart	Snellen vision chart
Near vision chart	Near vision chart

Clinical Material, tools and equipment

<p>Weighing Scale, Infant (10 Kg)</p>	<p>1. Table top, light and portable. 2. Built in rechargeable battery. 3. Easy to clean baby tray (acrylic), 4. Zero weight adjustment facility, 5. Quick, clear digital read outs with LCD display 6. Measurement does not change with position of baby on the pan; 7. Provision to measure the height of the baby in its laying position. 8. Accuracy: 10g, resolution: 1g, limit: 10gm – 10kg Settings-Auto setting to 0.00 once a the machine is switched on or when no external weighthas been put on Dimension :Base: 300mm x 265mm x 85mm, Pan: 510mm x 300mm x 85mm/As per IS standard Power Requirements-230 V AC & Battery operated-6V, one hour backup The Scale should be as per BIS specifications. The scale should have ISI mark ie IS: 2489 Or CE/USFDA certified. Should have model approval from Legal Metrology Dept., Govt. of India. The manufacturer shall have the valid license and should have model approval by the legal metrological Deptt. And the weighing scale must be stamped by the by legal metrological Deptt. In case of distributor, the bidder should have valid distributor and repair license from legal metrological Deptt., Govt. of Odisha.</p>
<p>Weighing Scale, (baby) hanging type, 5 kg</p>	<p>Salter baby spring balance (with Salter Hologram): Hanging type, Zero adjustment suspension ring load lock, aluminium tubular metal casing, calibrated with capacity 5 Kg., in 100gms graduation and with colour code length scale 17.5cm, colours of scale 0 – 2 kg Red, 2 – 2.5kg. Yellow & 2.5 – 5 kg. Green. Model approved, verified and stamped by Legal Meteorology Deptt. Weighing Sling – 1 No.</p>
<p>Tray instrument/Dressing with cover 310 x 195x63mm SS,</p>	<p>Instrument Tray with Cover Made of 304 grade Stainless Steel Size: 310 x 195x63mm Manufacturer should be ISO13485 approved Prodcut should be BIS/CE approved</p>
<p>Torch (ordinary)</p>	
<p>Dressing Drum with cover 0.945 litres stainless steel</p>	<ul style="list-style-type: none"> • Should be made of joint-less stainless steel of 304 grade steel of 0.5mm thickness. • Should have perforated body. • Should have chain locking with clamp to open or close the perforated body. • Size : 0.945 litres • Manufacturer should be ISO13485 approved

	<ul style="list-style-type: none"> Product should be BIS/CE approved
Hemoglobinometer – set Sahli type complete	<p>Haemoglobinometer (Sahli) The Kit consists of following standard setup: Comparator Holder: 1 No. Square H.B. Tube: 2 Nos. Graduated H.B. Pipette: 1 No. Amber coloured glass bottle with screw cap: 1 No. Glass Stirrer : 1 No. Dropper with teat : 1 No. Cleaning Brush : 1 No. All the above are fitted in thermoform tray. Further packed in cardboard box.</p> <ul style="list-style-type: none"> Manufacturer should be ISO13485 approved Product should be BIS/CE approved
Weighing Scale, Adult 125 kg/280 lb	<p>Sturdy dial type mechanical platform weighing machine for adult and children. Zero adjustment facility should be there. Sensitivity: 500 gm Range of weighing: 0-125kg The manufacturer shall have the valid manufacturing license and should have model approval by the legal metrological Deptt. and the weighing scale must be stamped by the by legal metrological Deptt. In case of distributor, the bidder should have valid distributor and repair license from legal metrological Deptt., Govt. of Odisha. ISO . certified manufacturer (certificate to be submitted). Warranty: 1 Year</p>
Steam Sterilizer	<p>Electrically operated. Size ideally: 24x8x6 inch Should have replaceable immersion type heater ISI marked. Body should be made of SS-304 grade steel. (Test report certificate from independent laboratory should be submitted with technical bid.) Power Supply Power input to be 220-240VAC, 50Hz fitted with Indian plug Manufacturer should be ISO13485 approved Product should be BIS/CE approved</p>

PHYSIOTHERAPY, GERIATIC, COMMON

1	Parralal bar	<p>Hand Rails made of PVC sheathed iron tubing. Mounted on a 10fit long width 2.5 fit wooden platform with inclination on both ends & covered with non slip matting. Height & width ajustable. Comes with detachable polished wooden abduction board Pipe matrial - Stainless Steel</p>
2	Ankle exerciser	<p>Easy to use Trouble free operation Robust construction</p>
3	Grip exerciser	<p>Finger Grip Hand Exercise Physiotherapy Equipment - bright chrome plated rectangular frame with six chrome plated springs for finger grip strengthening. After Removing the springs decreases the resistance level and inserting them increase the resistance level. Suitable</p>

4	Standing frame	<p>Description</p> <ul style="list-style-type: none"> • Standing frame is used for passive upright position. • The metal frame with powder coated finish is equipped with rotating castors. • Standing frame is useful for the people with cerebral palsy. • It is designed to bear the weight of the body. • It improves posture, Digestion. • It is also useful for hip stability and cardio fitness.
5	Corner seat	<p>Wooden corner chair, with broad base that helps to prevent tipping, has a padded seat, sides and back support. An abductor block, hip positioning belt, and removable tray are the integral part of the floor sitter. Unit finished in natural wood polish.</p>
6	Stair case	<p>CR Pipes, 304 grade stainless steel and best quality ply woods, high quality rexin and E-foam materials with fine stitches, high grade powder coated products.</p>
7	Bolster swing	<p>Weight: 9kg Dimensions: 20cm dia x 90 L x 175 H Working Load: 135kg</p>
8	Tyre tube swing	<p>Multi-directional swing that is colourful and appealing. Sit on it or lie across it on your tummy. Fun and functional. The heavy-duty polyamide cover is both inviting and practical as this covers the air valve of the inner tube and makes the swing easier to hold onto. Includes reinforced suspension bands.</p>
9	Ball pool with multi colour small ball	<p>The dense foam padded mini Ball Pool is Soft, safe and perfect for small children. It provides an excellent sensory stimulating activity. The round pool is 120cm in diameter x 50cm high, & has 10cm thick padded sides. The pool contains 500 multi colour balls of 7cm or 8cm diameter. Pool side and bottom is covered with durable rexine that easily wipes clean.</p>
10	Tunnel	<p>6' LENGTH 9" DIA WITH BASE</p>
11	Bean bags	<p>Made from premium quality leatherette, for extreme comfort and durability. This is a classic old style, evergreen, bean bag cover. Once this is filled with beans, it can be used for extreme comfort for lounging around the home, office, indoors and outdoors. Very light weight and easy to carry around. A bean bag can just be packed into the back seat and taken along for trips, picnics etc. Or use them for a full comfort experience at home. Available in too many colours. So choose one to match your mood and decor. 2.5 KG Beans Filled</p>

12	Wrapping in blanket,weighted blankets,towels	Made of high-density thickening oxford fabric, durable to use. Designed with padded shoulder, comfortable to wear. Highly flexible compressed sponge interlining, will release the pressure of steel on the body.
13	Thera band	L - 1.5MTR , W- 6 INCH
14	Blocks,bolster,small chair	<p>1.Blocks A - 28"/28"/28" b-24"/ 24"/ 24" c-20"/20"/20" d-16"/16"/16" e-12"/12"/12"</p> <p>2.BOLSTER set a. Length 42inch dia 12inch b. Length 36 inch dia 10inch b. Length 30 inch dia 10inch c. Length 24inch dia 8 inch d. Length 18 inch dia 8inch e. Length 12 inch dia 6 inch</p> <p>3.SMALL CHAIR Durable and sturdy chair for your little one. Strong backrest which is very comfortable for children ensures that your little one is seated in a perfect posture and is relaxed all the time. Key Features: Safe and non toxic Comfortable and strong backrest Strong legs for better durability Made of plastic</p>
15	Beads with lace,ring stand,button and un button shirts,shoe lacing	<p>Early cognitive development in children ensures a bright future. This box of 50 spherical beads from Little Genius is perfect for developing counting, sorting and eye-hand coordination skills. The beads come in 5 different colors with 1 lace, ensuring your child will be learning with fun. The beads have larger holes for threading and other crafts. It comes in a sturdy wooden box for easy storage.</p> <p>Note: Color of lace may vary. Hand & Eye Co-ordination Attention Span Building Creativity & Imagination Curiosity Building</p>

16	Treadmill	<p>Foldable, portable, non-motorized treadmill machine for home use. Electronic Meter for measuring Speed, Distance, Calories, Time and Pulse. Provision of 3 Level Manual Incline. Twister Helps To Slim The Thighs, Waist And Hips. Thick and robust metal rods for heavy pounding. Wheels for moving the machine.</p> <p>Weight Reduction and Belly Reduction. Lightweight exercise equipment to burn calories, lose weight and reduce belly fat and improve fitness</p> <p>Workout from convenience of Home in front of TV. No waiting in the lines at the gym, no speeding to the health club to get in before 'the rush', no walking outside at night in the dark.</p> <p>The product has to be assembled using an installation manual provided in the package</p> <p>Box Content: One box which contains Manual Treadmill</p>
17	Multi gym	<p>Weight stack cement filling 90kg providing 105kg maximum resistance.</p> <p>Pecdec.</p> <p>Leg extension.</p> <p>Arm curl.</p> <p>Low rowing.</p> <p>Chest press.</p> <p>Back leg curl.</p> <p>Lat pull down.</p> <p>Double pulley system.</p> <p>Maximum user weight 140kg</p> <p>Self-assembly.</p>
18	Height adjustable walker	<p>Features: Posture Control, Wide Folding, Wheels & Brakes, Rollator, Suspension . Aluminium Body</p>
19	Crawler	<p>Durable, height-adjustable frame that is designed for open accessibility and movement</p> <p>Easy to maneuver providing 360° pivoting action for smooth movement and turns</p> <p>Optional positioning belt to enhance safety and to ensure correct positioning</p> <p>Enables liberated movement to explore nearby surroundings</p>

20	sensory mats different textures	<p>1. SENSORY STIMULATION BRUSH SET Set includes : Soft Massage Mitt Shaving Brush. Soft Tooth Brush. Nail Brush. Pumice Stone. Five- Brushes of various sizes each with differently textured bristles ranging from very soft through firm. Four- 75mm x 75mm, Fibre sheets of different textures.</p> <p>2. SENSORY TEXTURES MATS Soft as grass or scaly like a snake? Each tile is different in these Sensory Mini Mats with six textures and colors for sensory exploration. Place on the floor as sensory steps for activities, or hang on the wall or put on the table for tactile exploration. Engages children to touch and describe textures that feel like grass, glitter, sandpaper, plush, snake skin and carpet. Supports children who are sensory seekers and provides non-threatening interaction for tactile defensiveness/exteroception. Non-slip backing keeps tiles in place and hole on top for easy wall hanging. Each tile</p>
21	arch support	MCR Rubber
22	medical/lateral wedge	MCR Rubber 3/16"
23	flat feet/ctev shoes pair	Leather with Rubber & C&E Heel
24	db splint with/without shoe	PP Moulded with Aluminium Bar
25	afo conventional(oneside)	Leather Shoes with Aluminium Two Bar , Calf Band & Stirrup Plate
26	afo conventional(bilateral)	Leather Shoes with Aluminium Two Bar , Calf Band & Stirrup Plate
27	knee orthosis polypropylene	Knee Joint Aluminium with PP Thigh & calf Shell
28	kafo conventional with shoe	Leather Shoes with Aluminium Two Bar , Calf Band & Stirrup Plate
29	bilateral kafo conventional with shoe	Leather Shoes with Aluminium Two Bar , Calf Band & Stirrup Plate
30	kafo conventional with shoe	
31	hkafo conventional with shoe	Leather Shoes with Aluminium Two Bar , Calf Band & Stirrup Plate
32	bilateral hkafo conventional with shoe	
33	hkafopolypropylene custom module without shoes	Leather Shoes with Aluminium Two Bar , Calf Band & Stirrup Plate
34	pavlik harness for chd	Latex Free Cloth for Baby Harness

EQUIPMENTS

Equipments for DBCS

1. A scan Biometer

1. 10 MHz biometry probe with applicator and clinical accuracy of ± 0.1 mm
2. Ability to measure axial length between 15 and 39 mm
3. Should have wift in contact eye model
4. Should have mesurement memory of 10 perh eye
5. Should have facility upto five different users to centrifuge the system to thoir individual settings
6. Should have five 10I calculations formulas holladay srk11 ark T , Binkhorst -II , hoffer Q and an optional haigs formula.
7. Should have auto , manual and super auto modes.
8. Should have large 800*600 SVGA touch / display LCD for easy viewing and adjustable screen brightness.
9. Should have programmable velocity for each segment
10. It should be ce approved .
11. The equipment should be HL7 compliance.

2. A scan Tonometer:

1. Measuring Range: 1 mm HG. To 60 mm HG or higher range
2. Working distance :11 mm
3. Eye fixation : inner fixation light
4. Intra ocular pressure compensation by corneal thickness
5. Result Display: 5.7" VGA Colour LCD
6. Printer : thermal printer with easy loading and auto paper cutter
7. Interface: Rs 232c lan USB
8. Motorised table Top
9. Vendor has to support specification with amnufacturer's brochure falling which offer will be rejected . vendor has to be demostating the equipment within specific time limit., if asked for falling which offer will be rejected.

3. Motorised table:

1. Maximum table height: 870 mm
2. Minimum table height : 670 mm
3. Vertical adjustment range: 200 mm
4. Table top size:570*400*25 mm
5. Over all dimension : 530(w)/580(l) *870(h) mm
6. Poer supply: Ac 230v 50/6 Hz

134

4. ENT Micro scope

Equipments for NTCP

1. Smoke Analyzer Breath Carbon Monoxide:-

Concentration Range: 0-150ppm, Display-Full Color touch screen , Detection principle-Electrochemical sensor, Repeatability: <3% difference on consecutive readings , H2Cross Interface <5%, Power: 3*AA(LR6or vEquivalent), T90 Response Time: <_ 17second, Operating Temperature Range: 0-40°C, Operating/Transport/Storage Pressure: 800-1200mbar, FSD, Operating Temp. Range 0-40°C, (Storage 0-50°C), Operating Humidity: 10-90% non-condensing, Sensor operating life: 5 years-5year warranty, Sensor sensitivity: 1ppm , Sensor Drift : <10% per annum, Dimensions Approx:34X75X140mm, Wt.: Approx 200g including batteries, Monitor Construction: Case : Polycarbonate/ABS blend Steri Touch anti-microbial additive, D-Piece: Polypropylene.

2. Portable Spiro meter: :

Technical Specification:-

Temperature sensor:semiconductor (0-45°C)

Flow sensor:bi-directional digital turbine

Flow range=16L/s Volume accuracy=3% or 50 mL

Flow accuracy=5% or 200mL/s

Dynamic resistance at 12 L/s :<0.5 cmH₂O/L/s

Communication Port: USB Power Supply: line powered from USB port

Dimension : 142x49.7x26 mm Weight:65 gram (2.5Oz)

Flow Mir@ disposable turbine Complies with ATS/ERS standards

Plugs directly into the USB port

Real time Flow /Volume loop and Volume ?time curve with PRE/POST comparison

Advanced spirometry test interpretation.Pediatric incentive animations .Estimated Lung Age (ELA)

Bronchial provocation test including new Mannitol protocol with FEV1 response curve.

Temperature sensor for BTPS conversion .

Option available :Oximeter module (it can be purchased separately)

Measured Parameters:-

FVC, FEV1, FEV1%, FEV3, FEV3%, FEV6, FEV1 /FEV6%,

PEF,FEF25%, FEF25%, FEF50%, FEF75%,FEF25-75%, FET, Vext, Lung Age, FIVC,FIVL, FIVl%,PIF, VC,IVC,IC,ERV,FEVI/VC%, VT,VE,Rf, ti/t-tot, MVV

Technical Specification:-

Temperature sensor:semiconductor (0-45oC)

Flow sensor:bi-directional digital turbine

Flow range=16L/s Volume accuracy=3% or 50 ml.

Flow accuracy=5% or 200mL/s

Dynamic resistance at 12 L/s :<0.5 cmH2o/L/s

Communication Port: USB Power Supply: line powered from USB port

Dimension : 142x49.7x26 mmWeight:65 gram (2.5Oz)

Flow Mir@ disposable turbine Complies with ATS/ERS standards

Plugs directly into the USB port

Real time Flow /Volume loop and Volume ?time curve with PRE/POST comparison

Advanced spirometry test interpretation.Pediatric incentive animations .Estimated Lung Age (ELA)

Bronchial provocation test including new Mannitol protocol with FEVI response curve.

Temperature sensor for BTPS conversion .

Option available :Oximeter module (it can be purchased separately)

Measured Parameters:-

FVC, FEV1, FEV1%, FEV3, FEV3%, FEV6, FEV1 /FEV6%,

PEF,FEF25%, FEF25%, FEF50%, FEF75%,FEF25-75%, FET, Vext, Lung Age, FIVC,FIVL, FIVl%,PIF,

VC,IVC,IC,ERV,FEVI/VC%, VT,VE,Rf, ti/t-tot, MVV

Technical Specification:-

Temperature sensor:semiconductor (0-45oC)

Flow sensor:bi-directional digital turbine

Flow range=16L/s Volume accuracy=3% or 50 mL

Flow accuracy=5% or 200mL/s

Dynamic resistance at 12 L/s :<0.5 cmH2o/L/s

Communication Port: USB Power Supply: line powered from USB port

Dimension : 142x49.7x26 mmWeight:65 gram (2.5Oz)

Flow Mir@ disposable turbine Complies with ATS/ERS standards

Plugs directly into the USB port

Real time Flow /Volume loop and Volume ?time curve with PRE/POST comparison

Advanced spirometry test interpretation.Pediatric incentive animations .Estimated Lung Age (ELA)

Bronchial provocation test including new Mannitol protocol with FEVI response curve.

Temperature sensor for BTPS conversion .

Option available :Oximeter module (it can be purchased separately)

Measured Parameters:-

FVC, FEV1, FEV1%, FEV3, FEV3%, FEV6, FEV1 /FEV6%,

Olivo

136

PEF,FEF25%, FEF25%, FEF50%, FEF75%,FEF25-75%, FET, Vext, Lung Age, FIVC,FIVI, FIVI%,PIF, VC,IVC,IC,ERV,FEVI/VC%, VT,VE,Rf, ti/t-tot, MVV

Technical Specification:-

Temperature sensor:semiconductor (0-45oC)

Flow sensor:bi-directional digital turbine

Flow range=16L/s Volume accuracy=3% or 50 mL

Flow accuracy=5% or 200mL/s

Dynamic resistance at 12 L/s :<0.5 cmH2o/L/s

Communication Port: USB Power Supply: line powered from USB port

Dimension : 142x49.7x26 mm Weight:65 gram (2.5Oz)

Flow Mir@ disposable turbine Complies with ATS/ERS standards

Plugs directly into the USB port

Real time Flow /Volume loop and Volume ?time curve with PRE/POST comparison

Advanced spirometrytestinterpretation.Pediatric incentive animations .Estimated Lung Age (ELA)

Bronchial provocation test including new Mannitol protocol with FEVI response curve.

Temperature sensor for BTPS conversion .

Option savailable :Oximeter module (it can be purchased separately)

Measured Parameters:-

FVC, FEVI, FEVI%, FEV3, FEV3%, FEV6, FEVI /FEV6%,

PEF,FEF25%, FEF25%, FEF50%, FEF75%,FEF25-75%, FET, Vext, Lung Age, FIVC,FIVI, FIVI%,PIF, VC,IVC,IC,ERV,FEVI/VC%, VT,VE,Rf, ti/t-tot, MVV

Equipments for NMHP

General Equipment's

Suction Machine (Eelctrical)

Eligibility Criteria:

- Should be FDA / CE approved product
- Manufacturer should be ISO certified for quality standards.
- Shall meet IEC -60601-1-2:2001 (Or Equivalent BISO General Requirement of Safety for Electromagnetic Compatibility or should comply with S9/366/EECEMC- directive

Operational Requirements

- Shall have Motor (CE marked of minimum ¹A H.P. capacity.
- The machine should be portable on three/four wheels and handle for transportation

Technical Specifications

- The Suction pump should be oil immersed fitted on Motor shaft.
- Suction pump should have line grinding internally. To facilitate maintenance the cover of machine should be easily to open from the top & sides. The suction machine should be capable of producing 0- 600 approx. mm Hg. which should be \pm 10 regulable, flutter free vacuum control knob monitored by vacuum gauge. The suction capacity should be 15-20 liters per minute and can be regulated. Noise level should be less than 48dB.

- It should have two bottles of 2 liters with synthetic rubber lids. The bottle shall be fitted with the arrangement to prevent overflow of fluid.
- ON/OFF Switch and Power indicator should be available
- Body material: Base, top & panel made of rust proof and corrosion resistant moulded ABS. Jar/Bottle material: Autoclavable polycarbonate.

Supplied with:

3 Core lead of 2 meter long with one 3 pins 15 amp. Plug -01 The Following spares per machine are also required:-

- i) Bottles 2Nos.
- ii) Lids 2Nos.
- iii) Rubber Seals 2Nos.
- iv) Blades 2Nos.
- v) Suction Tubing set 1No

Power Supply

Power input to be 220-240VAC, 50Hz fitted with Indian plug.

Foot Step

The step stools shall have a maximum load capacity of 150 kg. Stainless steel frame shall be made of square /round steel tubing 20 x 20 mm. Should be double-step type with step heights of are 200 and 400 mm(+/-10mm) respectively. It should be provided with slip-resistant steps are made of black moulded polyurethane (PU) coated foam plates of minimum 15mm thickness.

Overall dimension: 590x410x200/400 mm.

OXYGEN CONCENTRATOR**Description of Function:**

1. Oxygen concentrator to provide oxygen from ambient air

Technical Specification:

Oxygen concentrator to provide oxygen from ambient air.

- 1. Oxygen concentration measured at the flow meter by oxygen sensing device (OSD)
- 2. Sound level <43 dB
- 3. Superior grade of molecular sieve
- 4. Maintenance free rotary proppet valve.

Built-in Inlet filter and receiver:

- 1. Oxygen purity, approx: 90%
- 2. Oxygen output, approx: 0 - 5 LPM
- 3. Pressure, approx: 7 psi
- 4. □ Single outlet for oxygen Delivery
- 5. □ Oxygen tube of 2 m length must be provided with two humidifier bottles and two cabinet filters.
- 6. Masks: Necessary mask suitable to Neonatal should be provided -2sets.

Supplied with:

- 1. 1 x spare set of tubing
- 2. 1x Flow splitter

3.11 x spare set of internal and external filters (bacterial)

4.2x humidifier bottles and 2x cabinet filters

5.2x spare set of fuses

Environmental factors:

1. The unit shall be capable of being stored continuously in ambient temperature of 0-50 deg C and relative humidity of 15-90%

2. The unit shall be capable of operating continuously in ambient temperature of 10 -40 deg C and relative humidity of 15-90%

Power Supply

Power input to be 220-240VAC, 50Hz fitted with Indian plug

The payment of CMC (Year wise) shall only be made on a six monthly basis after completion of the 2 years on site comprehensive warranty.

B.P. Apparatus (Aneroid)

- Should be aneroidtype
- Should be shockproof
- Should be latex free arm cuff
- Light weight: easy to carry
- Range of BP monitoring: up to 300 M.M. Hg with an accuracy of +/- 3mmHg.
- The housing of meter should be made of good quality thsion insufflations.
- The pressure release valve should permit precise released of pressure and also allow last deflation.
- Micro filter must be provided to protect air release valve and measuringsystem.
- Should have spoon shaped grip made of stainlesssteel.
- The device should be shockresistant
- Should be supplied with following reusable cuffs: *Child & Adult.*

B.P. Apparatus (Digital)

- Should be inflating ,upper arm measurement digital BP apparatus for adult andchild.
- The apparatus should measure the Systolic, Diastolic and Pulse rate and same should be displayed on an inbuilt LCDscreen.
- Should have auto inflation mechanism for easymeasurement.
- Measurement Range: Pressure 10 to 280mmHg.
- Pulse should be 40 to 180 beats/min
- Measurement Method: OscillometricMethod
- Memory of Last 3 Lastmeasurement
- Should be provided with reusable adult and child armcuff.
- Accuracy: Pressure of +/- 3mmHg of +/-5%.
- Should have battery backup for more than 1000 measurements with new alkaline battery (AAType).

The instruments should be CE Method (certified to be submitted in technical bid)

1. Saline Stand

Quality Standard

- Should be CE approved model.
- Should be BIFMA/BIS approved model
- Should be BIS approved model.
-
- Manufacturer should have ISO 9001 certification for quality management standards.
- Manufacturer should have ISO 14001 certification for environmental management systems.
- Manufacturer should have BS OHSAS 18001 certification for occupational health & safety management.
- Should furnish stainless steel grade certificate from Govt/Govt. approved testing laboratory.
- Manufacture should produce test certificate from Govt/Govt. approved laboratory for test procedure like impact test, bend test, salt spray chamber test, epoxy powder coating & phosphate coating for quoted item
- Overall approx. size: height – 150cm-230 cm (with telescopic adjustable height)

Specification

- Main Frame: Strong & Sturdy stainless steel tubular construction mounted on four pronged tubular/rectangular base fitted with four swivel rust proof castors 50mm diameter.
- Stainless steel rod with double hooks
- All the Stainless Steel should be 304 grade

2. Suction Machine (Foot Operated)

1. The suction machine should be manually operated with a capacity of producing a vacuum of - 100mm hg /130cm water pressure
2. It should have one autoclavable polycarbonate bottle of 01 liters capacity with synthetic rubber lids. The bottle shall be fitted with the arrangement to prevent overflow of fluid.
3. Body material should be of metallic base with powder coated or of ABS body.
4. The top & panel made of rust proof and corrosion resistant moulded ABS.
5. The Following spares per machine are also required: -
 - (i) Bottles 2Nos.
 - (ii) Lids 2Nos.
 - (iii) Rubber Seals 2Nos.
 - (IV) Medical grade silicon Suction Tubing of 2mtrs - set 2Nos

3. Stetho Scope (Paediatric)

- High acoustics, sensitivity, comfortable angled headset with sealing eartips.
- Two sided tunable, heavy weight, chrome plated brass chest piece with brass stem and chrome plated brass screw on Paediatric chest piece.
- Standard length and thick single lumen moulded tube.
- Accessories: Name tag, Diaphragm and pair of soft cartips.

4. Haemoglobinometer (Sahli's)

The kit consists of following standard setup:-

1. Comparator Holder: 1No's
2. Comparator holder should be fitted with colour screen made up of acrylic. In front of the holder there should be three windows.
3. The two side windows should be fitted with colour.
4. Square H.B Tube: 2No.s

Handwritten signature

5. Square H.B tube should be graduated on both the side for the measurement of haemoglobin in respect of percentage and gram.
6. H.B Pipette – 1 No's
7. 20 Micro litres H.B Pipette with latex tube and mouthpiece.
8. Amber Coloured glass bottle : 1 No's
9. Glass Strrer: 1 No's
10. Cleaning Brush: 1 Nos.
11. Spare Latex Tubing one meter : 1 Nos.
12. All the above should be packed in plastic box

5. Laryngoscope Paediatric :(0& 1 Blade)

6. Digital Room thermometer:

For indoor storage condition – 20–60C, 20–80% RH

All measurement should display in a clear LCD screen

The unit should supply with battery.

SECTION – II

Equipments under NPCDCS

SL. No	NAME OF THE EQUIPMENT	TECHNICAL SPECIFICATION
	TRACTION UNIT WITH TRACTION BED	<ol style="list-style-type: none"> 1. For treatment of pelvis, cervical, lumbar, upper dorsal region and ankle. 2. It should be automatic microprocessor controlled unit with long life and should give smooth traction. 3. Electronic circuit with automatic calibration of traction force to maintain correct traction force. 4. Therapy time, hold and rest time should be easily programmable. 5. Adjustable single size pelvic and thoracic belts and the head halter fit all the patients both adults and children. 6. LCD display panel showing all parameters. 7. Buzzer indicator for completion of treatment. 8. Separate selection for cervical and lumbar traction. 9. Cervical tension - 5, 6, 7, 8, 10, 12kg 10. Lumbar tension 15, 20, 25, 30, 35, 40, 45kg. 11. Mode at least 3; static, intermittent progressive static have regressive cyclic, static combination cervical as well as lumbar 12. Hold time - 5, 10, 15, 20, 30, 40, 50, 60 secs. 13. Rest time 1, 5, 10, 15, 20, 30secs. 14. Preprogrammed protocol for various cervical, and lumbar ailments. 15. LED indicators for hold and rest time. 16. Have at least different pulling speeds. 17. Provided with patient stop switch. 18. Having high quality harmless accessories 19. Traction unit should be mounted on 3 section traction table. 20. Traction table should have arm pit for counter traction. 21. Facility to assist the height of the traction table. 22. Powder coated mild steel body with firm mattress. 23. Should be supplied with foot rest. 24. Should be provided with stainless steel spreader, cervical traction kit, lumbar traction belts, ankle traction kit, semi Fowler stool. 25. Operating power 110 - 240 volts, 50 - 60 Hz frequency 26. Current consumption 3.2 amp max.

		<p>27 . Power consumption 75 watt 28 . Electrical safety class type - B . 29 . Manufacturer should have ISO certification for city standards . 30 . Compreher . si - warrar for two years and next 3years CMC charge after . 31 . Comprehensive training , schedule for technical stafia and support services with the system on installation site . 32 . User manual to be supplied in English . 33 . List of equipment available for providing calibration and routine preventive maintenance support , as per manufacturer documentation manual , 34 . List of important spare parts and accessories with their part number and cost . 35 . Compliance report as per tender enquiry to be submitted in a tabulated and point wise manner . Clearly mentioning the page / Para number of original catalogue / data sheet . Any point . if not substantiated with authentic cataloguc , will not be considered .</p>
2	ULTRA SONIC THERAPY	<p>1 . Digital control ultra sound therapy with continuous and pulsed therapy modes . 2 . Frequency - 1 and 3 Mhz . 3 . Digital LCD Display touch screen , with provision for buzzer to check intensity before starting and after the treatment . 4 . Digital timer up to 30mins . 5 . Pulse frequency 100 Hz . 6 . Pulse ratio 1 : 1 , 1 : 2 , 1 : 4 , 1 : 8 , 1 : 16 7 . Therapy protocols at least 25pre programmes according to the Asian standard . 8 . ERA For probes should be between 1 - 6cm2 . 9 . BNR should be less than 4 . 10 . Provision for software up gradation . 11 . Power supply - 220 - 240volts 50 - 60hz 12 . Portable with trolley . 13 . Manufacturer should have ISC certification for quality standards . 14 . Comprehensive training for two years and next 5 years CM . charges after 15 . Comprehensive training schedule for technical staffs and support services with the system on installe on site 16 . USE manual to be supplied in English . 17 . List of equipment available for providing calibrated and routine preventive maintenance support , as per manufacturer documentation manual . 18 . List of important spare parts and accessories with their part number and costing . 19 . Compliance report as per tender enquiry to be submitted in a tabulated and point wise manner . Clearly mentioning the page / para number of original catalogue / data sheet . Any point . if not substantiated with authentic catalogue , will not be considered .</p>

3	SHOULDER WHEEL (with 360 deg . Scale)	<p>All 15 . 18kg metallic tube constructed , 100cm diameter wheel revolve smoothly with C drum & is fitted with calibrated sensitive resistance mechanism , and the resistance is controllable from Zero to maximum . A 360 degree Scale is provided on the drum to measure and record the degree of revolution from either . Direction . Arc of motion can be varied from 26cm to 86cm dia . Fitted with attachment to raise or lower the wheel at the desired height for each patient . Mounted on three laminated hardwood wall boards . Oven baked finish . . Manufacturer should have ISO certification for quality Standards . List of equipment available for providing calibration and routine preventive maintenance support , as per manufacturer documentation manual .</p>
4	GRIP EXERCISER (With base)	<p>Chrome plated finished , metallic grip exerciser is fitted on a 50mm wide laminated base . Suitable for patients with very weak / infirm hand Gives heavy resistance with six detachable springs The upper bar is calibrated in centimeters and is provide with a needle to mark & record the daily progress . Manufacturer should have ISO certification for quality standards .</p>
5	LASER THERAPY	<p>Portable laser . Operation mode - programme / manual Easy to read the display . Operation in graphic mode . Treatment programmes . chosen by name Provision of treatment timer . Fully functional device with independent control over all parameters . Display of energy in choice of joules / cm² . Continuous and pulsed treatment modes with fully variable pulsed frequencies . Full selection of clinical indication specific to laser applicator " selected . Wide variety of LED laser diodes , cluster probes . Automatic treatment time calculation on per basis of area of treatment . Dedicated modes for operation with optical fibre applicator Laser applicators - Point probe R660nm / 80mw with holder , Point probe R660nm / 80mw with holder , Point probe IR 808 nm / 200mw with holder , point probe R660nm / 40mw with holder , Cluster laser applicator CL1800 5RX 40mw + 4IR X400Mw . Power adjustment - 25 100 % , frequency - 1 - 5000 Hz , duty cycle 25 - 75 % pulse 52 us , treatment timer maximum 99 min 59 sec , Mains supply - 220 - 240volts 50Hz . Standard accessories - main cable , protective goggles for therapist and patient , trolley , bag for the unit and accessories , warning labels , blocking plug , user guide . Manufacturer should have ISO certification for quality standards . Comprehensive training for two years and next 5 years CMC charges after . Comprehensive training schedule for technical staffs and support services with the system on installation site User manual to be supplied in English . List of equipment available for providing calibration and routine preventive maintenance . . support , as per manufacturer documentation manual . List of important spare parts and accessories with their part number and costing . Compliance report as per tender enquiry to be submitted in a tabulated and point wise manner . Clearly mentioning the page / Para number of original catalogue / data sheet . Any point , if not substantiated with authentic catalogue , will not be considered .</p>

<p>6</p>	<p>ANKLE EXERCISER</p>	<p>Painted aluminium boot with strap to hold the foot is mounted on a laminated base with stainless steel sheet bracket having two springs for ankle (dorsiflexion and ANKLE EXERCISER plantar flexion) exercises . Resistance can be increased further by measured and recorded . Manufacturer should have ISO certification for quality standards . Painted aluminium boot with strap to hold the foot is mounted on a laminated base with stainless steel sheet bracket having two springs for ankle (dorsiflexion and ANKLE EXERCISER plantar flexion) exercises . Resistance can be increased further by measured and recorded . Manufacturer should have ISO certification for quality standards . Painted aluminium boot with strap to hold the foot is mounted on a laminated base with stainless steel sheet bracket having two springs for ankle (dorsiflexion and ANKLE EXERCISER plantar flexion) exercises . Resistance can be increased further by measured and recorded . Manufacturer should have ISO certification for quality standards .</p>
<p>7</p>	<p>QUADRICEPS TABLE</p>	<p>Quadriceps and hamstrings can be exercised without changing the position of patient the unit consists of foam padded table and a torque unit with two lever arms , one of which holds the weight while the other provided contact with patient by the changing the angle between the two arms , maximum or minimum 07 QUADRICEPS TABLE resistance can be given at any point in the range . Complete with five weight plate of 1kg each . Manufacturer should have ISO certification for quality , standards . Comprehensive training schedule for technical staffs and support services with the system on installation site</p>
<p>8</p>	<p>SHOULDER PULLEY EXERCISE</p>	<p>SHOULDER PULLEY EXERCISE : the product should be manufactured using optimum quality raw material and modern machinery in compliance with international quality standard . FEATURES : T - shaped . Should be made up of hollow iron body coated with anti rusting paint . Facility to attach on wall by screw fixation (3-4 holes on the main stand) . Presence rings at one end of straight bar to which pulley books can be attached . Provision of pulley with hooks , resilient threads , two wooden or crossed linked plastic hand pieces . Manufacturer should have ISO certification for quality standards .</p>
<p>9</p>	<p>INTERFERENTIAL THERAPY</p>	<p>An advanced microprocessor based IFT having minimum 20 interferential therapy programmes . Common features - : 1 . LCD display with display guidance . 2 . Provision for software upgradation , 3 . Pre - programmed protocols at least 10 various diseases . 4 . Portable with trolley . 5 . Digital two channel / four pole . 6 . Rotating multi vector scale facility with balance facility . 7 . CARRIER FREQUENCY 2000 - 10000 Hz 8 . Beat frequency 0 - 250Hz (1Hz step) , continuously adjustable . 9 . Out put current 0 - 100amp . 10 . Timer 0 - 60 min , buzzer facility for intensity checking and end of the treatment . 11 . Facility for Russian type current . 12 . Pad electrodes with wires two pair positive two pair negative .</p>

	<p>13 . Two pair straps (ELASTIC) 14 . Standard electrical safety class - 1 15 . Manufacturer should have 150 certification for quality standards . Comprehensive warranty for two years and next 3 years CMC charges after . Comprehensive training schedule for technical staffs and support services with the system on installation site User manual to be supplied in English . List of equipment available for providing calibration and routine preventive maintenance support , as per manufacturer documentation manual . List of important spare parts and accessories with their part number and costing . 1 Compliance report as per tender enquiry to be submitted in a tabulated and point wise manner . Clearly mentioning the page / Para number of original catalogue / data sheet . Any point , if not substantiated with authentic catalogue , will not be considered .</p>
<p>10 PARAFFIN WAX BATH</p>	<p>PARAFFIN WAX BATH The immersion heater shall conform to IS : 368 - 1965 specification for electric immersion water heater (second version) . It shall be so selected as to cover the entire width of the chamber . The capacity of this heating element should be such that the wax , when filled up to 2 / 3 volume of the chamber is melted within an hour . THERMOSTAT The thermostat shall conform to IS : 3017 - 1965 , Specification for thermostats for use with electric water heaters . It shall preset to operate at a temperature of 48 - 1°C , but shall be capable of being set at any value between 38°C and 58°C . DIMENSION The chamber of the paraffin wax bath shall be as per dimension given below . Length - 500mm , Breadth - 350mm , Height 250mm . . The chamber shall be insulated all around by glass wool . CONSTRUCTION The inner stainless steel wax chamber shall be fabricated by beading and soldering or argon arc welding . 1. The chamber shall be leak proof . 2. A protective wooden rim to prevent hurting the patient shall be provided at the top all round . A wooden or aluminium removable lid shall be provided to cover up the wax bath when not in use . 3. The heater shall be provided at the bottom and the thermostat adjusting dial shall appear on the front side of the bath . 4. One indicator . lamp each of distinctly different colour shall be into the input circuit and the thermostat circuit . The lamp in the mains circuit shall operate at all times after the bath is switched on . The lamp in the thermostat circuit shall glow only when the heating circuit is on WORKMANSHIP AND FINISH . The exterior shall be finished by not hot stoving enamel spray painting . interior of jacket should be made rust - proof by applying a suitable treatment . The colour of the paint shall be subject to agreement between the purchaser and supplier . Prior to painting , the surface shall be degreased , rust - proofed by phosphating and then suitable protected by an anti corrosive primer , either by brushing or by spraying . Each coat shall be separately stoved . The resulting finish shall be hard and shall not readily chip or flake . 1. The interior of the stainless steel wax jacket shall be finished in dull satin finish . 2. If specifically desired by the purchaser , the top and exposed sides of the wooden rim shall be covered with synthetic decorative laminations . Drain plug shall be provided for draining the wax , if required by the purchaser . 3. The immersion heater shall be insulated electrically from the rest of the bath and the leakage current shall be not exceed 300 . A as specified in IS 302 - 1979 . General and safety requirement for household and similar</p>

		<p>electrical appliances .</p> <p>ACCESSORIES .</p> <p>The following accessories shall be provided as optional , if specifically ordered :</p> <ul style="list-style-type: none"> • Dial indicating type thermometer . • Trolley with castors . <p>MARKING .</p> <p>The bath shall be marked with the following</p> <ul style="list-style-type: none"> • Manufacturer ' s name , initial , or recognized trade - mark . • Heater ratings , like voltage , wattage , ac operation , • Thermostat ratings . . <p>ISI CERTIFICATION MARKING .</p> <p>Details available with the Indian standard Institution .</p> <p>POWER SUPPLY</p> <p>Mains supply 220 - 240volt , 50Hz , maximum power consumption 1 . 2kilo watt per hour .</p>
<p>11</p>	<p>LONG WAVE DIATHERMY</p>	<p>Microcontroller based model .</p> <ul style="list-style-type: none"> • Inbuilt clinical programs . • Wavelength : 300m . • Frequency : 1Hhz . • Pulse & continuous mode . • Power : variable in 9 steps . • Insulated probe for patient safety . • Mains - 240volt , 50Hz . <p>FEATURES & ACCESSORIES</p> <ul style="list-style-type: none"> • Compact , light weight & portable . • A . B . S . shockproof body • Specifically designed unit bag to carry the equipment conveniently . • Programme information guide . • Prescheduled service plan . • Different sizes of applicator heads to cover wide areaspectrum . • Cream bottle . • Trolley • Manufacture ISO certification .
<p>12</p>	<p>Muscle stimulator</p>	<ul style="list-style-type: none"> • With faradic and Galvanic types of current with variable pulse width . • Provision for Galvanic , faradic , surged and SD curve . • Facility to plot SD curve and Ionotophoresis . • Pulse duration , Rest period , timer intensity control buzzer . • Input voltage : 220VAC / 50Hz . . • Current modes : Galvanic , faradic . <p>Accessories</p> <ul style="list-style-type: none"> • Pen electrode with variable electrode (small , medium & large) . • Pad electrode (four with wires) . • Elastic Straps (four) .

13	TENS	<ul style="list-style-type: none"> • A micro controller based multi programmable transcutaneous electric stimulator with self explanatory operating instructions . • Frequency : 1Hz to 250Hz • Input voltage 220VAC / 50Hz • Intensity 0 - 99mA • Pulse width 20msec - 1000msec • Programmes - Continuous , burst , modulation , sweep , neuromuscular stimulation . • LCD display • Provision for software up gradation • Display guidance • Portable with trolley • Timer 0 - 60min . • Buzzer facility at the end of the treatment . • Manufacture Iso certification .
14	BALANCE BOARD	<ul style="list-style-type: none"> • Should be made up of wooden semicircular board , covered with firm rexin . • Dimension - 24 " x 12 " x 6 " • Carrying capacity 110kg • Manufacturer should have Iso certification .
15	PEG BOARD	<ul style="list-style-type: none"> • Should be made up of wooden board with colourful • holes and sticks preferably circular , triangular and square . • Dimension - 12 " x 12 " • Manufacturer should have Iso certification .
16	STATIC CYCLE	<ul style="list-style-type: none"> • Should be made up of tubular steel framemstandsm solidly on properly balanced base . • Provided with adjustable cycle seat and specitirally _ designer handle • Cycle is fitted with one hard rubber tyred wheel , standard chain and sprocket for bicycle drive comes with resistance knob which permits controlled variation in riding efforts . • Should have facility of odometer which shows speed and distance . • Oven baked finished with working parts finished with chrome plating . • Standard wheel size for adult group . • Manufacturer should have ISO certification .
17	Weight cuffs	<ul style="list-style-type: none"> • Various sizes / weights ½ kg . 1kg . 2kg • Made up of lycra / metal inside and covered with rexin . • Should be durable . • Manufacturer should have Iso certification .
18	GRIP EXERCISER	<ul style="list-style-type: none"> • Made up of Stainless Steel . • Wooden hand piece with sliding facility . • 5 Nos of springs attachment for resistance . • Dimension : Length - Max 1 feet . Height - Mar 8 Inch .
19	PEG BOARD	<ul style="list-style-type: none"> • Should be wooden . • Colourful square / Circular / Triangular hollows with complimentary sticks with minimum 3sizes . • Dimension - 1feet (L) x 1feet (w) .

TRUENAT SPECIFICATION

SL NO	NAME OF THE ITEMS	Specification	
1	Real-Time quantitative micro PCR Analyzer (Single Channel)	Principle	Patented real-time micro PCR
		Optics	Fluorescence, Three Wavelength
		Speed Throughput	40 cycles of PCR/35 minutes 1 chip at a time
		Interface	Wi-Fi, 3G, Bluetooth
		Calibration	Auto-calibration
		Memory	20,000 test results
		Operating environment	Temperature: 15-40°C, RH: 10-80 %
		Display	Capacitive 5" Touch Screen
		Printer	External 2" Bluetooth Thermal Printer
		Power	Rechargeable Lithium Ion Battery Pack: 7.4V; 8.7 Ah Input to AC/DC adaptor: Single Phase 100-240V; 50/60HZ; 1500 mA Output from AC/DC adaptor: 10 V; 4500MA; 45VA If the input specifications in your country do not meet the above requirements, please contact your local Molbio representative.
		Weight	1.5 kgs
		Size	248 mm x 185 mm x 112 mm
	Auto-Specifications-Extraction Device	Principle :	Proprietary matrix-based extraction
		Operation :	Fully Automatic
		Display Screen :	2 line alphanumeric LCD
		Power :	Rechargeable Lithium Ion Battery Pack 7.4 V, 11.6 Ah External AC/DC adaptor: Input 1.5A, 100/240V, 50/60 Hz Output 10V, 4.5A
		Weight :	10/1/20192.9 kgs
		Size :	215 x 235 x 115 mm
		Software:	Proprietary firmware
		Operating environment :	Temperature 15-45°C, RH: 10-90%
2	Real-Time quantitative micro PCR Analyzer (Two Channel)	Principle	Patented real-time micro PCR
		Optics	Fluorescence, Three Wavelength
		Speed Throughput	40 cycles of PCR/35 minutes 2 chip-Random access
		Interface	Wi-Fi, 3G, Bluetooth
		Calibration	Auto-calibration
		Memory	20,000 test results
		Operating environment	Temperature: 15-40°C, RH: 10-80 %
		Display	Capacitive 5" Touch Screen
		Printer	External 2" Bluetooth Thermal Printer

	Power	<i>Rechargeable Lithium Ion Battery Pack: 7.4V; 8.7 Ah Input to AC/DC adaptor: Single Phase 100-240V; 50/60HZ; 1500 mA Output from AC/DC adaptor: 10 V; 5500MA; 55VA If the input specifications in your country do not meet the above requirements, please contact your local Molbio representative.</i>
	Weight	3.6 kgs
	Size	240 mm x 242 mm x 159 mm
Auto-Specifications-Extraction Device	Principle :	<i>Proprietary matrix-based extraction</i>
	Operation :	<i>Fully Automatic</i>
	Display Screen :	<i>2 line alphanumeric LCD</i>
	Power :	<i>Rechargeable Lithium Ion Battery Pack 7.4 V, 11.6 Ah External AC/DC adaptor: Input 1.5A, 100/240V, 50/60 Hz Output 10V, 4.5A</i>
	Weight :	<i>10/1/20192.9 kgs</i>
	Size :	<i>215 x 235 x 115 mm</i>
	Software:	<i>Proprietary firmware</i>
	Operating environment :	<i>Temperature 15-45°C, RH: 10-90%</i>
	3 Real-Time quantitative micro PCR Analyzer (Four Channel)	Principle
Optics		<i>Fluorescence, Three Wavelength</i>
Speed		<i>40 cycles of PCR/35 minutes</i>
Throughput		<i>4 chip-Random access</i>
Interface		<i>Wi-Fi, 3G, Bluetooth</i>
Calibration		<i>Auto-calibration</i>
Memory		<i>20,000 test results</i>
Operating environment		<i>Temperature: 15-40°C, RH: 10-80 %</i>
Display		<i>Capacitive 5" Touch Screen</i>
Printer		<i>External 2" Bluetooth Thermal Printer</i>
Power		<i>Rechargeable Lithium Ion Battery Pack: 7.4V; 8.7 Ah Input to AC/DC adaptor: Single Phase 100-240V; 50/60HZ; 1500 mA Output from AC/DC adaptor: 10 V; 5500MA; 55VA If the input specifications in your country do not meet the above requirements, please contact your local Molbio representative.</i>
Weight		5.2 kgs
Size		400 mm x 242 mm x 159 mm
Auto-Specifications-Extraction Device	Principle :	<i>Proprietary matrix-based extraction</i>
	Operation :	<i>Fully Automatic</i>
	Display Screen :	<i>2 line alphanumeric LCD</i>
	Power :	<i>Rechargeable Lithium Ion Battery Pack 7.4 V, 11.6 Ah External AC/DC adaptor: Input 1.5A, 100/240V, 50/60 Hz Output 10V, 4.5A</i>

Weight :	10/1/20192.9 kgs
Size :	215 x 235 x 115 mm
Software:	Proprietary firmware
Operating environment :	Temperature 15-45°C, RH: 10-90%

CDM
CDM & PHO-Cum-DMD
Balangir

MICROSCOPE

Documentation Manufacturer's certificate:	The manufacturer must have a CE certification for quality management system and a type test certificate of relevant optical and mechanical tests. Quality and safety standards met by the product must be listed.
Accessories:-	Dust cover made of antistatic material
Battery pack essential:-	Rechargeable battery pack (6V DC) of minimum two hours with charger working with 220-250V AC, 50Hz supply for online and offline power.
Eye protection essential:	If using an FM without a darkroom, a pair of well fitting soft rubber pieces to protect the eyes and block stray light. One antistatic cleaning brush for each microscope. At least one blue filter per microscope (wrapped separately in a box)
Optional	A self standing mirror unit adapted to the space between base and sub-stage condenser, providing bright illumination when used in bright field. Three pin wall adaptor from AC current to be provided for Indian conditions.
Operation, installation and maintenance: Operation, maintenance and installation operation and maintenance manual:-	At least one set of operation, maintenance and service manuals for each microscope, written in English. The manuals to include instructions for: <ul style="list-style-type: none"> • Setting up the microscope • Routine cleaning and maintenance (including how to change the bulb) • Changing the batteries inside the pack. • Installing and using the mirror (for when the electric lamp is not working) • Planning periodic maintenance.
Installation:	The successful bidders must arrange for the equipment to be installed by certified personnel any prerequisites for installation to be communicated to the purchaser in advance, in detail. The bidders to also provide onsite user training on how to use and maintain the microscope.
Inspection:	On site (at the site of manufacturer/authorized agent) 100% inspection would be conducted by a team nominated by the purchaser before accepting the materials.
Warranty:	Should provide minimum three years comprehensive warranty.
Maintenance:	Comprehensive maintenance including spare parts for five years after completion of warranty period. The purchaser at their discretion may conclude CMC for five years on annual payment basis with renewal every year subject to satisfactory performance.
After Sale Service:	The service centre should be in India. The supplier to provide an after sale service that covers the whole country. The service to have competent staff, adequate infrastructure and sufficient spare parts to be able to respond to any complaints, and to repair or replace the microscope within 3 days (for hard to reach areas 7 days).
PCR Thermocycler: Description of function:-	The thermo cycler is used in a TB laboratory to amplify fragments of mycobacterial DNA.
Main specifications	Thermocycler, Peltier elements. Block for 96x0.2ml tubes, possibility to use block with 48 x 0.5 ml tubes and 96 PCR plates. Blocks must be resistant to oxidation. Heating rate: 4 degree C/s. Cooling rate: 2 degree C/s.

	<ul style="list-style-type: none"> All objectives should be para focal.
Marking and identification:-	<p>All objectives should be provided with the following information:</p> <ul style="list-style-type: none"> Name or code of the manufacturer Magnification and numerical aperture (NA)
Nose piece	<p>Backward outward tilted revolving nose piece to accommodate at least 9 objectives, any parts not covered by an objective should be closed with dust proof metallic or hard plastic screw caps. The nose piece should be provided with ribbed grip for easy rotation on precision ball bearing mechanism for smooth and accurate alignment with precise click stops. In changing from one objective to another or reintroducing the same objective by rotation, the objective in the centre of the field should not appear displaced by more than 0.04 mm in the object plane in any direction.</p>
Stage	<p>Rectangular built in uniformly horizontal, mechanical stage. The stage should be provided with a spring loaded slide holder for safe and exact positioning of the slide. The construction should allow a smooth travel in transverse directions. Travel range at least 75x 30mm (wxd) with vernier's scale, fatigue proof position of knobs for movement, right or left hand operation.</p>
Condenser	<p>Sub-stage condenser of Abbe type, 0.91.25 with rack and pinion arrangement in coarsening and fine adjustments.</p>
Sub-stage illuminator	<p>Sub-stage illuminator for bright field microscopy with possibility to switch easily between FM and bright field without tools with built in white LED source (1wt & 6 volts) with light source life time > 30000 hours. The system should provide a light intensity adjustment device, and easily accessible on/off switch. The lamp should be provided with a lamp socket for easy replacement of the bulb. The housing for light source should be designed to prevent dispersion of light and mounts not to heat of the body of the microscope.</p>
Fluorescence illumination	<p>Fluorescence illumination, depending on microscope type may be</p> <ol style="list-style-type: none"> 1. A built-in LED blue light source with maximum web length closed to 450 nm for reflected light examination or 2. An LED bulb light source attachment with maximum web length closed to 450 nm i.e. fitted in to special objectives for reflected light examination or 3. An LED blue light source attachment with maximum web length closed to 450 nm i.e. fitted on to the illumination system of a standard microscope and sliding barrier 510 nm long pass filter for transmitted light examination.
Focusing knobs	<p>Co-axial coarse and fine focusing knobs capable of smooth fine focusing movement over the full range of coarse travel. The fine focusing movement should have sensitivity of two microns or less (finger) with 200-500 μm per rotation over the entire coarse focusing range. Focusing knobs should be at both sides. A focusing stop safety arrangement/mechanism should be provided to avoid slide breakage as well as a total range of at least 15mm. All metallic parts of the microscope to be corrosion proof acid proof and stain proof.</p>
Electricity requirement: Supply voltage:-	<p>220-250 AC, 50 HZ voltage and plugs shall be adapted to those used inside the country. The line cord/power cord supplied with equipment shall be of acceptable durability, length and current carrying capacity complying with Indian Standards.</p>
Power consumption:-	<p>Will depend on the illumination equipment (max 30W) conform to electrical safety IEC 60601-1, UL 61010, EN 61010-1. Power supply, wide range input with 6 V converters. Protection class (in accordance with EN 60529), Designed not to interfere with circuit radio (in accordance with EN 55014).</p>

152

Specifications

Description	Speciation
Technical Specification:-	<ul style="list-style-type: none"> • Should be a Binocular Research Optical LED Fluorescence Microscope with ergonomic design. • For bright field, dark field and fluorescent imaging with image analysis, software and dust cover
Light Source :-	<ul style="list-style-type: none"> • LED light source for bright/dark field imaging.
Lenses:-	<ul style="list-style-type: none"> • Plan apochromatic objective lens • With anti-glaring/ antifungal/ antimicrobial coatings. • Wide field eyepiece adjustable position as well as focusing. • 10x/20x eye piece.
Optical System:-	<ul style="list-style-type: none"> • Infinity corrected optical system. Optics should DIN/ASTM international type.
Objectives:-	<ul style="list-style-type: none"> • Kindly mentioned the numerical aperture with minimum 4 nosepiece 10x, 20x, 40x, 100x oil immersion.
Condenser:-	<ul style="list-style-type: none"> • Height adjustable abbe condenser N.A. 1.25 with iris diaphragm (adjustable). • Filter holder for optional slider for dark field or phase contrast.
Stage :-	<ul style="list-style-type: none"> • X – Y movement (mechanical stage) • With independent coarse and fine adjustment for very fine focusing.
Fluorescence Filters:-	<ul style="list-style-type: none"> • Minimum 4 to 5 filter position or slot with neutral density filter to control the fluorescence intensity. • UV filter (excitation range 330-340 nm to 400 nm)
Main Specification of LED Fluorescence:-	
Body:-	Sturdy, stable, base body with focus adjustment devices positioned for a prolonged comfortable use and easy, precise movement. The body shall be epoxy powder coated durable metal, heat treated and resistant to standard reagents used for staining, organic solvents used for cleaning of lenses and disinfectants.
Optional System:-	All optical parts including objectives, eye pieces, lenses, prisms should have anti-reflective and anti-fungal coating.
Binocular Eyepiece:-	Binocular eye piece, preferable with a tube flexible for use an upper and lower position to ease the use by different lab workers, an ergonomic viewing angle of 50 degree, a tube rotatable through 360 degree at interpupillary distance ranging from at least 48-75 mm, maintaining parallelity.
Eyepieces:-	Paired, high quality, achromatic, wide field, 10x magnification. The eyepieces should have a minimum field number of 18, an eyepiece diopter adjustment on at least one eyepieces and no pointer.
Objectives:-	<ul style="list-style-type: none"> • All objectives should be plan achromat, infinity corrected and usable without cover glass, 20x and 40x objectives should be usable with the fluorescence. • Objectives 2-40 x should be of spring loaded type. • 10x NA: 0.25 Essential. • 20x NA: 0.40 essential. • 40 x dry: essential for confirmation. • 100x NA: 1.25, for oil immersion (essential)

Dg set:

Technical specification of 10 KYA & 25 KVA Gen Set

DIESEL ENGINE

10 KVA : 1 cylinder , 4 stroke cycle , Air cooled , developing 18 . 7 BHP at 1500 RPM under NTP Conditions of BS : 5514 . The engine shall be provided with electrical starting arrangement & shall give the electrical output of 10 KVA / 8KW at 0 . 8 power factor .

25 KVA: 3cylinder 4 stroke cyces Air cooled developing 355 BHP at 1500RPM under NTP condition s of Bs:5514. The engine shall be provided with electrical starting arrangemet & shall give the electrical output of 25 KVA at 0.8 power .

The engine is complete with:

Starter motor .

Battery charging alternator

Dry type air cleaner ,

Micro fuel pump (Mechanical)

A1 class governing ,

Flywheel with flywheel housing

Residential silencer .

First fill of lube oil .

Engine protections, Low lube oil pressure & high Water temperature .

ALTERNATOR :

1 . suitable make (Crompton Greaves / LEORY SOMER) , single phase , 50 cycles , self - regulated self - excited , screen protected , 10 KVA / 8 Kw 230 / 240 volts 2 wire , IP23 Enclosure , Class I Insulation alternator of rated capacity at 0 . 8 power factor , The alternator will conform to relevant BS / IS Standard . The choice of alternator is to us unless specifically agreed upon .

2 . Suitable make (Crompton Greaves / LEROY SOMER) , Single phase , 50 cycles , self - excited , screen protected , 25 KVA / 20 KW 415 volts , 4 wire , IP23 Enclosure , Class H insulation alternator of rated capacity at 0 . 8 power factor , The alternator will conform to relevant BS / IS standard The choice of alternator is to us unless specifically agreed upon .

STANDARD CONTROL PANNEL :

Standard / customized louvered , steel construction control Panel , dust & vermin proof comprising of MCCB , CTs for metering , Voltmeter , Ammeter , Frequency meter , Inddication , Fuses , KWH etc .

ESSENTIAL ACCESSORIES :

- Fuel tank with drain valve, breather, inlet and outlet connections.
- Battery with leads.
- Anti vibration mountings.
- Operator manuals & test certificates.

SOUNDPROOF CANOPY

Our soundproof canopies are made using the best quality steel purchased directly from manufactures in sealed packets. Our state-of-the-at manufacturing plant includes machinery and equipment such CNC Bending, Fully automated conveyorised powder coating plant with automatic plc based 9 tank pre-treatment process. This ensures consistency in quality and results in extremely aesthetic looking product

TYPE: Canopy will be four sided.

BASE:

2.5mm Thick CRCA sheet is used for Base.

CANOPY:

Doors & Roof shall be fabricated from CRCA of adequate thickness with airtight EPDM foan gasket, MS/Zinc die cast hinges will be provided.

INSULATION:

The insulation material willbe PU Foam. The material is fire retardant.

BOINDOW FOR CONTROL Panel:

Windows for control panel will be with glass/acrylic and sealed with neoprene rubber gssket.

AIR INLET & AIR OUTLET:

Air inlet and outlet louvers, with special sound reduction dampers for proper air ventilation will be provided.

CONSTRUCTION:

The construction will be modular, bolted construction and will have access from all sides. All fasteners will have washers. The

fastners will be SS/Zinc coated MS.

LIGHTING:

No lamp with ON/Off switch and socket inside the canopy will be provided.

EARTHINNG:

The Earthing arrangements for DG set/ Canopy will be homogenous.

PAINTING:

All metal surface will be thoroughly treated with degreasing, derusting and phosphating in our in-house fully-automated, 9 tank pre-treatment process, conveyorised powder coating plant, before final power coating . The finish will be suitable for outdoor use.

NOISE LEVEL PERFORMANCE:

Suitable external fuel filling and damage connections with locking facility will be provided.

FUEL TANK CAPACITY:

The tank capacity will be above the 150Liters.

TEMPERATURE RISE INSIDE CAOPY:

The maximum permissible temperature rile above the ambient will be 50C to 70C.

VENTILATION:

The canopy is equipped with a forced air circulation fan of reputed make .

ANTIVIBRATION PADS:

The anti vibration pads will be provided below diesel engine and alternator.

EMERGENCY PUSH STOP BUTTON:b

The canopy will have provision of emergency push button which shall be housed in protective enclosure with a glass front.

Physiotherapy Equipment

Technical Specification :

1 – Theapeutic ultrasound Machine

Name and coding

GMDN name - Therapeutic Ultrasound Machine

Definition - Ultrasound isa method of stimulating the tissue beneath the skin ' s surface using very high frequency sound waves . between 800, 000 Hzand 2, 000, 000 Hz, which cannot be heard by humans . Therapeutic ultrasound in physical therapyis alternating compression and rarefaction of sound waves with a frequency of > 20 , 000 cycles / second

GENERAL USE

1 . 1 - **Clinical purpose** For treatment of painful conditions involving the musculoskeletal and neuromuscular structures

1 . 2 - Used by clinical department / ward - It is used in physiotherapy . neurology , trauma care .

1 . 4 - Overview of functional requirements

TECHNICAL

2 - TECHNICAL CHARACTERISTICS .

- It should be double frequency ultrasound machine .
- Modes of operation should be in continuous and pulsed
- It should have at least in 4 different settings for Pulse ratio .
- Maximum output 2 . 5 - 3 watts / Sq . cm .
- Output frequency 1 MHz and 3MHz
- Treatment time should be adjustable from 0 . 99 minutes
- Automatic alam should be their on completion of the treatment .
- Digital LCD display to indicate the output in w / Cm² and other required services .
- All settings should be provided using key/touch panel .
- Both the transducer should be high quality water resistant (minimum IPX5)
- The beam type : Divergent Collimated
- Transducer : The Effective radiating area should be of 0 . 5 100 . 8 for 1MHz and 0 . 4 10 0 . 6 for 3MHz
- The BNR for both the transducer should be 4 - 6 .

2 . 2 - Settings - Treatment time , frequency selection , pulse ratio etc .

2 . 3 - User ' s interface - manual

2 . 4 - Software and / or standard of communication (where ever required) - inbuilt .

3 - PHYSICAL CHARACTERISTICS

Handwritten signature and stamp

- 3.1 - Dimensions (metric) - Stand alone
- 3.2 - Weight (lbs . kg) - < 5kg
- 3.3 - Configuration - NA
- 3.4 - Noise (indBA) , heat dissipation - NA
- 3.5 - Mobility , portability - Table top
- 4 - ENERGY SOURCE (electricity . UPS)
 - 4.1 - Power Requirements - NA
 - 4.2 - Battery operated - NA
 - 4.3 - Tolerance (to variations , shutdowns) - NA
 - 4.4 - Protection - NA
 - 4.5 - Power consumption - NA
 - 4.6 - Other energy supplies - NA
- 5 - ACCESSORIES , SPARE PARTS , CONSUMABLES
 - 5.1 - Accessories (mandatory , standard , optional)
 - 5.2 - Spare parts (main ones)
 - 5.3 - Consumables / reagents (open , closed system)
- 6 - ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS
 - 6.1 - Atmosphere / Ambiance (air conditioning , humidity , dust . . .) Operating condition : Capable of operating continuously in ambient temperature of upto 50 deg C and relative humidity of 15 to 90 % in ideal circumstances . an ambient air velocity is less than 0.3m / s .
 - 6.2 - User ' s care , Cleaning , Disinfection & Sterility issues - Complete unit to be easily washable and sterilizable using both alcohol and chlorine agents .
- 7 - STANDARDS AND SAFETY
 - 7.1 - Certificates (pre - market , sanitary , . . .) ; Performance and safety standards (specific to the device type) ; Local and / or international
 - ISO13485 : Manufacturer / supplier should have Iso certificate for quality standard , Should be USFDA / CE (notified) approved product or BIS certified
 - Safty standard to meet IEC 60601
- 8 - TRAINING AND INSTALLATION
 - 8.1 - Pre - installation requirements : nature , values , quality , tolerance - Supplier to perform installation , safety and operation checks beforehandover .
 - 8.2 - Requirements for sign - off - Certificate of Calibration and inspection from the factory .
 - 8.3 - Training of staff (medical , paramedical , technicians) - Training of users in operation and basic maintenance shall be provided
- 9 - WARRANTY AND MAINTENANCE
 - 9.1 - Warranty - 1 year .
 - 9.2 - Maintenance tasks - maintenance manual detailing complete maintaining schedule
 - 9.3 - Service contract clauses , including prices
 - 9.4 - Others
- 10 - DOCUMENTATION
 - 10.1 - Operating manuals , service manuals , other manuals - Required
 - 10.2 - Other accompanying documents - Demonstration CDs
 - 10.3 - Recommendations for maintenance - NA
- 11 - NOTES
 - 11.1 - Service Support Contact details (Hierchy Wise : including a toll free / landline number) - NA
 - 11.2 - Recommendations or warnings - NA

2. Rowing

- The rowing machine should be operated by the patient of age group 3 - 9 years .
- It should be multifunction type for building of strength of the children .
- It should be self propelled type for providing low or no impact on the patient .
- Provided with Elastic rope with adjustable resistances of minimum 3 .
- Its design should be play and colourful type to attract the children ' s .
- The item should have foam based padding to cover the steel frames for safe use of the children .
- Manufacturer should be certified .

3 - Parallel Bar**Technical Specification**

- The parallel bar should be height adjustable . platform based one which should be very simple for easy accommodation of multiple patients of age group 2 - 6 years .
- The handrails should be in single piece , circular in design stainless steel pipe of minimum diameter 1 1/2 " .
- Both the end of the handrails should be fitted with bumpers .
- The Uprights should be made of heavy gauge square 1 1/2 " steel tube . All parts should be powder - coated . The uprights are to be fitted on a 1/2" thick hard plywood base . Both end of this platform should be UV curved for obstruction free . The platform should be stain finish . Both the end of the platform should have two antislip threads for non skidding . -
- Safety treads at both ends of platform should be provided for safety of the patient when take turn .
- Models make it safer for patient to turn

Minimum dimension of the structure :

- Length of the bar : 10 feet
- Width of the bar : 25 " - 28 "
- Height adjustment of the Bar : 26 " - 39 "
- The manufacturer should be ISO 13485 approved .

4 - Weight Cuff

- One pair of Wrist Weights for age group of 3 - 6 years . -
- The Weight of Wrist weight should be of 500gms - 2kg of adjustable weights .
- The weight should be covered in a soft , durable material .
- It should be completely latex free .
- It should be Easy and effective way to exercise the arms
- It should be Simple to fasten for total user comfort
- It should also be worn around the ankle
- Manufacturer should be ISO certified .

5 - Multi propose Exercise Chair (Weight and Puller Exerciser)

Should be Specifically designed chair for multi exercise facility .

The unit should be used for the age group of 6 - 18 years .

Made of tubular steel constructed chair of 100 cm long x 65 cm wide approximate .

The chair should be fitted with overhead bar that extends out 80cm from the frame .

The chair with two stabilizing straps , three handles two foot straps , ropes with pulleys and overhead pulley system can be used for variety of exercises involving Reciprocal Motion for Elbow , Shoulder , Knees and Hips : Active Quadriceps and Hamstrings Stretching , Resistive and Assistive exercises .

A set of Ten locking weights should be provided for graded resistance for all exercises

The unit should not have any sharp edges .

The manufacturer should be iso certified

6 - Ankle exerciser

- It should be useful for the ankle exercise for the age group of 6 - 18 years who has injury and or weakened ankles .
- Design with a painted aluminium boot with strap . -
- The boot should be mounted on a laminated stainless steel sheet bracket having two springs for ankle .
- The resistance can be increased further by tightening spring 's nut .
- Degree of flexion can be measured and recorded .
- Manufacturer Should be Iso certified

7 - Shoulder Wheel

- It should be wall mounted one .
- The wheel for use of age group 6 - 18 years .
- The motion arc can be adjustable from 10 to 38 inches by adjusting the handle . -
- The wheel shall be mounted on two chrome plated height adjustable (8 " TO 26 ") rails
- The resistance can be varied by turning the resistance knob ,
- The manufacturer should be Iso certified

Handwritten signature
DMD

8 - Fore - Arm Exerciser

- Adjustable Hand Grip Exerciser shall be ideal for early stages of rehabilitation
- The fore Arm Exerciser for use of age group 5 - 18 years
- It should be ideal for hand , finger , wrist or arm exercises
- The tension can be increased or decreased as per the user turning the adjustment knob -
- The tension range can be set at any level between 0 . 5kg - 5kg allowing the tension to be steadily increased as the user regains strength . \

9. Rope LADDER

- For Age group from 3 - 12 years
- Indoor/outdoor 10 - foot rope ladder
- Smooth - sanded maple - wood rungs
- Sturdy rope of 10ft
- Don't need hardware to hang
- Holds up to 125 lbs
- Child can scale the side of a castle , mountain , or ship with this ladder
- Manufacturer Should be also certified

10 - PEDIATRIC TREADMILL

The Paediatric Treadmill should be used from the age of 4 years and up to 12 years old . Specialize application for rehabilitation and longitudinal testing of young children with chronic diseases .

Specifications

- The treadmill should include control unit of inbuilt programmable protocols ,
- Elevation : 0 to 25 %
- Rehab speed : 0 . 1 to 12 km / h .
- start speed 0 km / h
- Standard running surface : 120x50 cm
- Standard pre - programmed protocols : Bruce & Balke
- Maximum patient weight : 100kg
- Emergency stop : with magnetic lanyard
- Low noise level
- No belt - greasing required
- Soft surface Operates on 220 volt .

11 - Tilt table

- It should function like a motorized table with vertical to horizontal tilt is achieved with an easy - to - turn by crank mechanism .
- Crank is angled to provide leverage for maximum lifting efficiency . -
- The table should have three positioning straps for security on raising the patient .
- Latex free ~ Should have minimum 30 " wide surface with an extra - wide footboard (20 " W x 18 " D) .
- Minimum 2 " - thick high - density (40) foam / Moulded foam padding .
- Made of heavy - duty steel frame with vinyl upholstery .
- Surface area : 28 " W x 78 " L x 33 " H . approximate
- The manufacturer should be also certified

12. Multi Gym (Pediatric)

- Multiple Exerciser multigym system for fitness as well as therapy .
- It should have facility for exercises for Chest Extension , High Pull , Low Pull , Rowing . Peck - Deck , Leg Extension Etc
- Easy To Use , Space Saving . No - Cable - Change Design
- The frame work should be made of good quality material with smooth finish (no sharp edges) ,
- It should be easy to use , space saving and there should not be any cable to change in design . -
- The Product may be delivered in two or three Parcels for Heavy Products

13 - Standing Unit

The unit should be a vertical stander .

The unit should be provided with four points of support for therapeutic benefits of standing and places children at peer level .

Minimum Features :

- 1 . Height - adjustable Chest , Pelvic & Knee supports .
- 2 . Adjustable foot restraints ,

Handwritten signature

- 3. Detachable rimmed tray for activities .
- 4. Chrome - plated uprights fitted on non - slipmatted foot board . -
The unit should be finished with multiple colours to attract the child .
The manufacturer should be ISO certified .

14 - Wrist Roll for children use :

Unit should consist of double hand grips , rope and weight of minimum , 5kg .

15 - Grip Exercise : Grip exerciser tool for kids only .

16 - Floor Ladder

- > It should be used for improvement of acceleration . lateral speed and change of direction .
- > It should be used for development of the core skills necessary to enhance balance rhythm and body control
- > The ladder should be of 15 feet long with 11 heavy - duty plastic rungs for high - intensity training ,
- > The ladder should be made of thick , rugged , nylon straps and are sewn in place so that the rungs on the ladder don't move even when you bump into them repeatedly .
- > The ends of the ladder should have strong double - reinforced D - rings to keep ladder staked and in place on grass surfaces .
- > Includes carry bag for easy portability

- 17 Wrist . Circumductor

- > A iron wheel mounted on a laminated wooden base has a small Adjustable handle fitted to the wheel .
- > A knob shall be provided at back of the wheel to control resistance to maximum .

18 - Depth perception peg board

It should be used for Stimulating the depth perception and eye - hand co - ordination on two level . Board is 30cm square and have 25 holes of 12mm dia .
The board comes with 21 solid of two colours of red and green pegs to place in . The top level of the peg should be clear made of transparent plastic and the base should be made of poly wood

19- standing frame

20- height adjustable Walker

- Approximate user height : 4' 10 " - 61 "
- Height adjustments : Seat height : 18 " - 22 " , Handles : 29 , 5 " - 38 "
- Includes seamless padded seat and zippered carry pouch
- Loop - lock brakes
- Removable , hinged , padded backrest
- Ergonomic handgrips
- Weighs : 14 lbs . . .
- Weight capacity : 300 lbs .

21-Nirmals Hand table apparatus

Hard - wood table with laminated top is fitted with Pulleys , Leather loops , Nylon cord & Weights for Fingers , Hand , Wrist & Forearm exercises . Especially for Metacarpophalangeal / Interphalangeal joints . Also provided with Supinator / Pronator & Wrist - Circumduction wheel for Wrist exercises .

TECHNICAL SPECIFICATION :

Table : Hard - wood table with laminated top
: Size : 24 " x 30 " x 30 " high .
: Natural wood polish Finish .

Pulleys : 6 (Six) Nylon pulleys , fitted in Steel Frame with Powder coated finish .

Leather Loops : 12 leather Loops with Nylon cord that passes through the Pulleys ,

Weight Hangers : Six , Weight Hangers with Pulleys underneath the Table to hang weights .

Weight : Five sets , each set consists of 5 Sets weights of one each of 100 , 200 , 300 , 400 and 500grams . Weights with a hole to hang , have Chrome finished .

Finish : Metal parts with Powder coating finish .

22- Corner seat

- Corner chairs assist with visual scanning , breathing , eating , and development of arm mobility : they are ideal for children who lack postural control of the head , neck , or trunk .
- The back of the chair is v . shaped rather than straight , and the seat can be lifted or lowered . A raised seat promotes thigh alignment , reducing both tightness in the hamstrings and spasticity in spinal and pelvic alignment .
- A lowered seat allows the child to relax with legs extended .
- Corner chairs shall have rectangular cushions that are placed between the distal femurs to ensure hip alignment . Provided with the seatbelt to prevent the child from sliding or pushing out of their chair .
- The dimension should be adequate for seating children from 1 - 6 years of age .

23 - Crawler :

- Height adjustable type .
- The body should be supported good quality Rexene to bear children of age group 2-6 years .
- The unit should be powder coated frames with no sharp edges . ,
- It can provide hammock tilted forward or backward for correct positioning of the patient .

24 - Stair case

The stair case shall be a Small Up and Down type with 3 step UP and 3 step down .
 The patient can ascend and descend without turning .
 The stairs are to be Small and straight .
 The total length of the stair case should be fitted with two full width rails
 It should bear a load capacity under normal for age group of 3 - 9 years .
 Can be easily fitted to any space .

Dimension :

- For down three steps : 10 " Lx 30 " Wx6 " H
- For UP Three steps : 10 " LX 30 " Wx4 " H
- The base platform : 24 " Lx 30 " Wx 12 " H
- Complete unit shall be made of good quality Poly Wood .

25 - Beach ball : Regular playing beach ball for children size.

Inflatable 12 " in diameter . Rainbow design , Made of non toxic rubber material .

40 - Peanut Balls

A favorite occupational therapy tool and physical therapy ball . peanut balls are great for working on balance . body awareness , core strength , body stability . providing vestibular input , and much more .

[Handwritten Signature]
 CDM & PHO-Cum-DMD
 Balangir

Motorized Treadmill	2.0HP DC multi-function green DC motor with level of manual in clinic, pre-set programs, smart run function, BMI fat function, crossbar handle heart rate sensor, dual spring chain absorption, double layered running board, Hydraulic soft-drop system, auto lubrication, wheels for easy movement with LCD display to track speed, time, distance, calories & HR
Ultrasonic Therapy Unit with Trolley	1 & 3MHZ continuous as well as pulsed mode facility, timer buzzer
Infrared Lamp	UV proof, 300 watt, luminous & non-luminous infrared, timer facility
Treatment wooden plinth with cushion padded	6' x 2.5' x 2.5'


CDM & PHO-Cum-DMD
Balangir

Motorized Treadmill	2.0HP DC multi-function green DC motor with level of manual in clinic, pre-set programs, smart run function, BMI fat function, crossbar handle heart rate sensor, dual spring chain absorption, double layered running board, Hydraulic soft-drop system, auto lubrication, wheels for easy movement with LCD display to track speed, time, distance, calories & HR
Ultrasonic Therapy Unit with Trolley	1 & 3MHZ contineous as well as pulsed mode facility, timer buzzer
Infrared Lamp	UV proof, 300 watt, luminous & non-luminous infrared, timer facility
Treatment wooden plinth with cushion padded	6' x 2.5' x 2.5'


CDM & PHO-Cum-DMD
Balangir

ULTRASOUND MACHINE WITH COLOR DOPPLER

Technical Specification:

Technical Specification of Ultrasound Colour Doppler

GENERAL

1. USE

Clinical purpose:

Doppler ultrasonography is a non-invasive diagnostic procedure that changes sound waves into an image that can be viewed on a monitor an ultrasonic technique for detecting anatomic details by color coding of velocity shifts. In cardiography blood flowing in one direction appears red, and blood flowing in the opposite direction appears blue. The technique can also indicate the velocity of red blood corpuscles moving through the circulatory system, which makes it possible to quantify the flow, measure the pressures within the heart chambers, and calculate the stroke volume. In laparoscopy, Doppler colour flow allows for rapid identification and differentiation of ducts and valves in the viscera, particularly in detection and diagnosis of pancreatic and liver tumours' and colorectal liver metastases.

Used by clinical department/ward: O&G/Radiology diagnosticlaboratories.

TECHNICAL

2. TECHNICALCHARACTERISTICS

Technical characteristics (specific to this type ofdevice)

The system should be state art with full Digital Technology & should be capable of whole body sonography& other application for adult &paediatrics (Infants & Neonates) which includes abdominal, Obs/Gyn, Endovascular, Peripheral vascular, transvaginal, transrectal& small parts.

- 1) The system should incorporate facility for high resolution 2D, 3D, M mode, PW color imaging, Power Doppler Anglo ImagingModes.
- 2) The system should have more than 20000 DigitalChannels
- 3) The system should have 256 Grey shade ormore.
- 4) The system should have capability of triplex display in real time with allprobes.
- 5) The system should have a very high frame rate of 700 frames per second ormore.
- 6) The system should have Harmonic imaging.The system shall support Tissue Harmonic Imaging capability on phased, linear, 3D and curved arraytransducers.
- 7) The system should have advance image processing algorithms to analyze between targets & artifacts so as to sharpen target anatomy, reduce the sparkle & artifacts to improve imagequality.
- 8) The system shall offer Harmonic Imaging in Power Doppler Imaging mode forimproved sensitivity and specificity in differentiating blood/ agent fromtissue.
- 9) The system should have facility for Zoom(Real-time and Frozen-image) & manipulation of image through pre-processing and post-processing with cine loop viewing image of allmodes.
- 10) System should have disc of at least 500 GB ormore.
- 11) The system should have facility of digital storage & retrieval of B/W &colour imagedata (Both frozen & cine loops) on built in as well as ramble media (CD, DVD) USBport.

- 12) The system should have automatic real time quantification of Doppler parameter like velocity, frequency, time heart rate stop, flow volume, plasticity index, resistivity index, peak velocity, average value, point value, area & diameter flow volume etc.
- 13) The system should have high dynamic range of minimum 170 dB with scanning depth of 30 cm or more.
- 14) All transducers (minimum 3) should be broadband width, Frequency range 2 to 12 MHz or more with universal ports for transducer interchange. Two active ports and one one parking port is required.
- 15) System should have 17"/19" HD display with tilt and swivel Facility along with alphanumeric keyboard with illuminating keys and status function.
- 16) Dicom 3.0 compatible.
- 17) Review of stored images is desirable.

User's interface Software, Automatic (stages to be displayed or recordable for printing).

Software and/or standard of communication (where ever required)

3. PHYSICAL CHARACTERISTICS

Dimensions (metric) : NA

Weight (lbs, kg): NA

Configuration: NA

Noise (in dBA) - Noise-free system.

Heat dissipation - Heat Dissipation: Should maintain nominal Temp and the heat should be Disbursed through a cooling mechanism.

Mobility, portability - Certified Room Installation.

4. ENERGY SOURCE :(electricity, UPS)

Power Requirements Power unit: Input voltage- 220V-240V AC, 50Hz Single-phase.

Battery operated: Yes

Tolerance (to variations, shutdowns): NA

Protection NA

Power consumption - NA

5. ACCESSORIES, SPARE PARTS, CONSUMABLES

Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables/reagents (open, closed system)- Machine should be supplied with following transducers:-

1. Broad band convex array transducer with multi-frequency range of 2 to 5 MHz or wider range -
1 No.
2. Broad band trans-vaginal probe with multi-frequency range between 5 to 8 MHz or wider range -
1 No.

The system should have following documentation devices

- a) B/W Thermal printer of latest model
- b) Glazed thermal paper rolls 50 no. & 5 rim of Glossy papersheet.
- c) Online Ups for power back up of minimum 30 minutes

6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS

Atmosphere/Ambiance (air conditioning, humidity, dust...)

- 1) Operating condition: Capable of operating continuously in ambient temperature of 5 to 50 deg C and relative humidity of 15 to 80% in ideal circumstances.
- 2) Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%.

User's care, Cleaning, Disinfection & Sterility issues

- 1) Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover.

2) Sterilization not required.

7. STANDARDS AND SAFETY

Certificates (pre-market, sanitary,); Performance and safety standards (specific to the device type); Local and/or international

- 1. Should be USFDA & European CE (Notified body) /BIS approved product.
- 2. Manufacturer should have ISO 13485 certification for quality standards.
- 3 Electrical safety conforms to the standards for electrical safety IEC 60601- General Requirements (or equivalent BIS Standard)
- 4. Shall meet internationally recognised for Electromagnetic Compatibility (EMI/EMC) for electromedical equipment: 61326-1.
- 5. Certified to be compliant with IEC 61010-1, IEC 61010-2-40 for safety.

8. TRAINING AND INSTALLATION

Pre-installation requirements: nature, values, quality, tolerance

- 1) Availability of 5 amp socket;
- 2) Safety and operation check before handover;
- 3) To be installed in a separate room.

Requirements for sign-off Certificate of calibration and inspection of parts from the manufacturer

Training of staff (medical, paramedical, technicians)

- 1) Training of users on operation and basic maintenance for 2 weeks;
- 2) Advanced maintenance tasks required shall be documented

9. WARRANTY AND MAINTENANCE

Warranty 2 years

Maintenance tasks CMC 3 years 2 PM Visits Annually. All Breakdown calls to be attended within 24 hrs of registration.

Service contract clauses, including prices

The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee/warranty period should be attached;

10. DOCUMENTATION

Operating manuals, service manuals, other manuals Should provide 2 sets (hard copy and soft-copy) of:-

- 1) User, technical and maintenance manuals to be supplied in english/hindi language along with machine diagrams;
- 2) List of equipment and procedures required for local calibration and routine maintenance;
- 3) Service and operation manuals (original and copy) to be provided;
- 4) Advanced maintenance tasks documentation;
- 5) Certificate of calibration and inspection

Other accompanying documents

List of essential spares and accessories, with their part numbers and cost;

11. NOTES

Service Support Contact details (Hierarchy Wise; including a toll free/landline number)

Contact details of manufacturer, supplier and local service agent to be provided; Any Contract (AMC/CMC/add-hoc) to be declared by the manufacturer;

Recommendations or warnings Any warning signs would be adequately displayed

Handwritten signature
 CDM & PHO-Cum-DMD
 Baiangir

164

GD/H128 Advanced Nursing Training Manikin

The system is designed according to the latest nursing curriculum for clinical nursing training. The system consists of a full-body male manikin, vital signs simulator, non-invasive simulator, with basic nursing and advanced nursing, including non-invasive BP, auscultation heart sound, respiration sound, bowel sound, simulate carotid artery pulse etc.

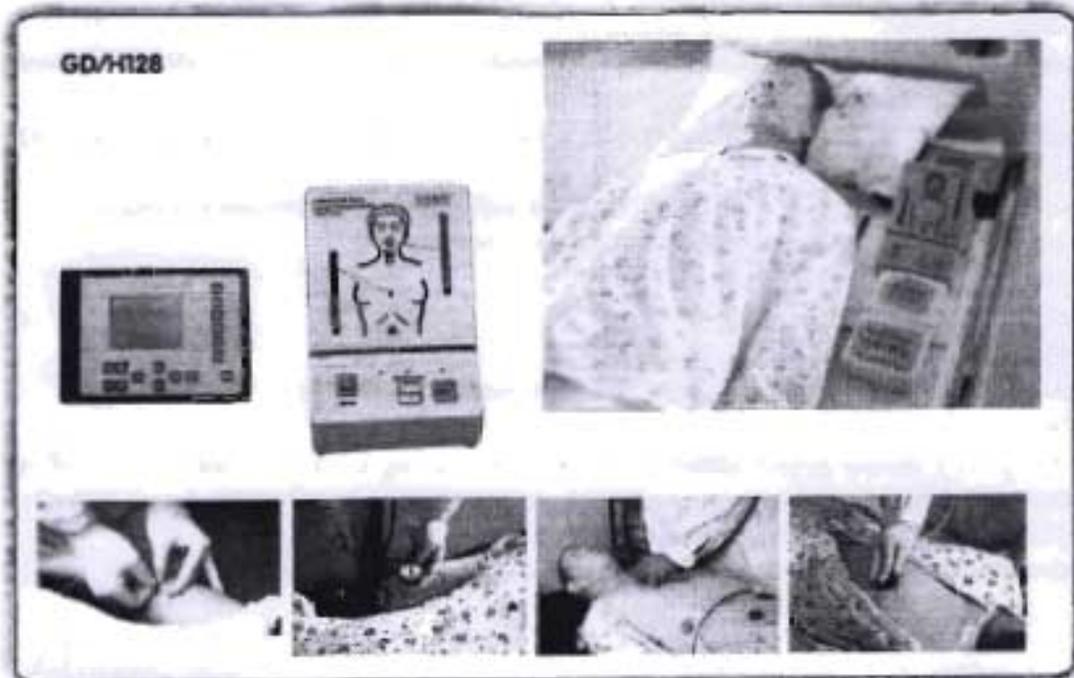
Features of ECG simulator :-

GD/SM900 Vital signs simulator includes "Auscultation, ECG teaching special chest skin" "Auscultation Abdominal skin", vital signs simulator, simulative electronic auscultator, DC9V external power adapter, etc.

1. 17 kinds of ECG (e.g. :sinus heart rhythm, unifocal PVC, coupied PVC, atrial flutter, etc.)
2. 17 kinds of patient voice (e.g.: cough, vomit, etc.)
3. 42 kinds of common heart sound (e.g. : common Heart sound, sinus tachycardia, ventricular sepal Defect, etc.)
4. 24 kinds of respiration sound (e.g. bronchovesicular Breathing sound, egophony, coarse rales, etc.)
5. 4 kinds of bowel sound (e.g. : normal bowel sound, decreased bowel sound, blood murmur, etc.)
6. Large-screen LCD display, vivid and direct-viewing user Interface, easy to operate
7. Auscultation part adopts simulative electronic Auscultator and RFID labelling technique.
8. Volume is divided into 5 levels, each can be adjusted
9. individually.
10. For auscultation teaching, can connect to voice box, can also connect earphone to play the designated auscultation sound ; Flexible power supply choice : DC9V external power Adapter or 6pcs # 5 battery
11. Power saving function : if there is no keying operation within 30 seconds, the LCD backlight would turn off; re-keying operation would turn on backlight

Trauma Evaluation and Nursing Modules :

- | | |
|--|--|
| 1. Breast section and wound suturing care | 9. Thigh trauma incision and wound suturing care |
| 2. Chest wall section and wound suturing care | 10. Thigh skin laceration care |
| 3. Abdominal wall section and wound suturing care. | 11. Thigh infective ulcer care |
| 4. Closed drainage of thoracic cavity care | 12. Varix of lower limb and ulcer care |
| 5. Drainage of cavitas pericardialis care | 13. Foot sphacelus, crushing injury of the first, second, third toe and heelslick care |
| 6. T-tube drainage care | 14. Amputation stump of upper arm and wound nursing |
| 7. Abdominal draining care | 15. Amputation stump of leg and wound nursing |
| 8. Pneumothorax puncture care | 16. Wearable pressure sore care. |



class

PRODUCT SPECIFICATION

165

GD/H220B Full-functional Elderly Nursing Manikin (Unisex)

The manikin is designed according to the physiological characteristic of male/female old people for basic clinical nursing training. The product consists of full-body male/female elderly manikin and non-invasive blood pressure simulator, with about 50 kinds of nursing functions, made of imported PVC material, fine quality, environmental protection, realistic shape as human, easily washable; these help nursing workers understand and care for old people during the nursing process.

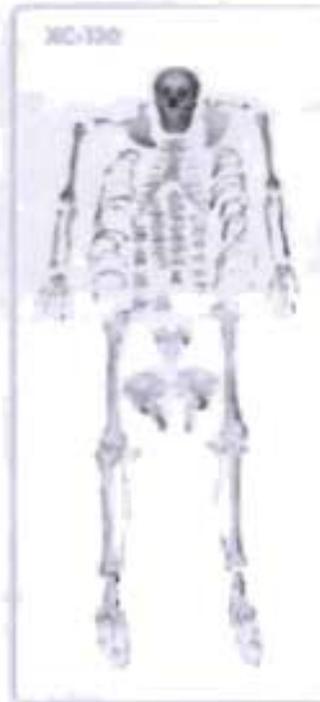
Basic nursing functions:

1. Hair and face washing
2. Pupil observation, Bilateral pupil states: normal, mydriasis
3. Eye and ear washing and administering
4. Removal and insertion of hearing aid
5. Oral cavity and artificial teeth care
6. Endotracheal intubation, automatically monitor whether the tracheal intubation is correct or not through sensor, support auscultation to detect intubation site
7. Incision of trachea nursing
8. Sputum suction
9. Oxygen intubating
10. Oral and nasal feeding
11. Gastroirrigation
12. Venipuncture, injection, transfusion (arm)
13. Deltoid subcutaneous injection
14. Vastus lateralis injection
15. Thoracic cavity, abdominal cavity, liver, bone marrow and lumbar puncture
16. Breast nursing, mammary gland examination
17. Enema
18. Male / Female urethral catheterization
19. Male / Female bladder irrigation
20. Stoma drainage
21. Colostomy
22. Buttocks intramuscular injection
23. Large area of sacral ulcer
24. Cancer tumor contrast
25. Cleavage lines contrast
26. Holistic nursing: sponge bath, replacing clothes, cold and hot therapy
27. Realistic limbs joint, stiff simulative joints, truck may lean forward, can sit in the wheelchair
 - 1) Truck - rotation, flexibility
 - 2) Neck - rotation, flexibility, lateral curvature
 - 3) Shoulder and buttock - endoduction, abduction rotation, flexibility
 - 4) Elbow - internal rotation, external rotation
 - 5) Knees - internal rotation, external rotation
 - 6) Wrist - internal rotation, flexibility, stretching, bending
 - 7) Ankle - inversion, eversion, endoduction, abduction
28. Non-invasive blood pressure measurement
 - 1) Systolic and diastolic pressure may be set individually in steps of 1mmHg
 - 2) Systolic pressure 0-300mmHg, diastolic pressure 0-300Hg
 - 3) Korotkoff sound volume in ten steps, 0-9
29. Diabetes foot nursing



XC-101 Life Size Human Skeleton (180 cm tall) on a pelvic mounted stand

This economical, life size adult plastic skeleton is ideal for teaching the basics of human anatomy. Its arms and legs are removable for study. Features nerve branches, vertebral artery and herniated lumbar disc. Skull includes movable jaw, cut calvarium, suture lines and three removable lower teeth. Mounted on a sturdy 16" wide plastic base, washable, unbreakable PVC plastic.

XC-120 Disarticulated Skeleton Model

This economical life size disarticulated skeleton will encourage students to learn the various bones of an Adult Human. It is a visual aid for the instruction of anatomy to students, doctors, nurses, or anyone interested in human skeleton. This highly accurate version contains 200 bones of an Adult Human.

MK-050 Human Torso

- ◆ Hand painted in vivid and natural colours
- ◆ 11 dissectible parts
- ◆ ABS Base
- ◆ Fully illustrated colour
- ◆ Instructional manual

MK-050



XC-307D Middle Heart Model

This model shows external features and internal structures of heart and its relation between large blood vessels. Dissectible into 5 parts, 3 times enlarged.

XC-307D



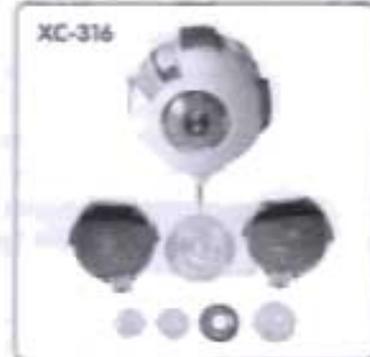
XC-316 Giant Eye Model

The different parts of the eyeball model are detachable to show the following structures:

- ◆ Tunica External : Showing cornea and sclera with attachments of ocular muscles and optic nerves
- ◆ Tunica Media : Showing the iris, the ciliary body and the choroid
- ◆ Tunica Internal is Retina
- ◆ Refraction Media : Showing the lens and the vitreous body.

The model is made of PVC.

XC-316



XC-303C New Style Giant Ear Model

A giant model of the Ear, for elementary science classes, shows the three main structural parts of the hearing organ (external ear, middle ear, internal ear) and the position of the equilibrium organ of human body.

- External Ear : showing the shape of the auricle and the primary features of the external auditory meatus.
- Middle Ear : showing the type of membrane, the three auditory ossicles (hammer, anvil, stirrup) and the eustachian tube.
- Internal Ear : showing the vestibule, cochlea and the three semicircular canals of the osseous labyrinth.

XC-303C

**XC-320 Larynx, Heart and Lungs Model**

A life-size model separated into 7 parts. The lungs have 2 removable lobes to show the internal structures, the heart bisects showing atria, ventricles and valves, the larynx bisects and the diaphragm is shown.

XC-320

**XC-301 Magnified Human Larynx Model**

A functional model that demonstrates movements of the epiglottis and cartilages in the voice box. It helps the students to understand the morphology and structure of the respiratory tract and phonetic organ. On base 3 times enlarged and 3 parts dissectible.

XC-301



ZX-1304 Human Reproductive System Male



- Made of HSP resin for long durability.
- Upper half part shows median section of the system.
- Internal organs (accessory organs) shown in great detail are epididymis, vas deferens, ejaculatory ducts, urethra, seminal vesicles, prostate gland and bulbourethral gland.
- External structures shown are penis, scrotum and testicles.
- Total of 24 parts are labeled in upper half model.
- Lower half shows the model of scrotum and contents alongwith the penis. Total of 17 parts are labeled in lower half model.

ZX 1305 Human Reproductive System Female



- Made of advanced HSP resin.
- Upper half model shows both ovaries, left ovary in section, fallopian tubes with fimbriae, uterus, cut open vagina to show vaginal folds and cervix, bladder with cut open urethra, labia and rectum.
- Total 20 positions are marked in upper half model.
- Lower half model shows adnexa of uterus.
- Size : 40x80 cm. Total 36 positions are marked in lower half model.

XC-333 Urinary System Model

The model shows the structures of retroperitoneal cavity, pelvis with bones and muscles, inferior vena cava, aorta with its branches, upper urinary tract, kidney with adrenal gland, ureter, bladder, etc. Dissectible into 4 parts.

XC-333

**XC-114 Life Size Hand/Wrist Joint**

XC-114



Demonstrate all the hand functionality and the external anatomical structures. Made of PVC Plastic, life size on stand.

XC-112 Life-Size Elbow Joint with Ligaments

XC-112



Demonstrates abduction, anteversion, retroversion, internal / external rotation of the radius. Includes flexible, artificial ligaments. Life size, on stand.

XC-109 Life-Size Shoulder Joint with Ligaments

XC-109



Demonstrates abduction, adduction, anteversion, retroversion and internal / external rotation. Includes flexible, artificial ligaments. Life size, on stand.

XC-113 Life Size Foot/Ankle Joint



Demonstrate all the foot functionality and the external anatomical structures. Made of PVC Plastic, life size on stand.

XC-111 Life-Size Knee Joint with Ligaments



Demonstrate abduction, anteversion, retroversion internal / external rotation. Includes flexible, artificial ligaments. Life size, on stand.

XC-110 Life-Size Hip Joint with Ligaments



Demonstrates anteversion, retroversion, abduction and internal / external rotation. Includes flexible, artificial ligaments. Life size, on stand.

NS-6503 Teeth Model in Oral Cavity



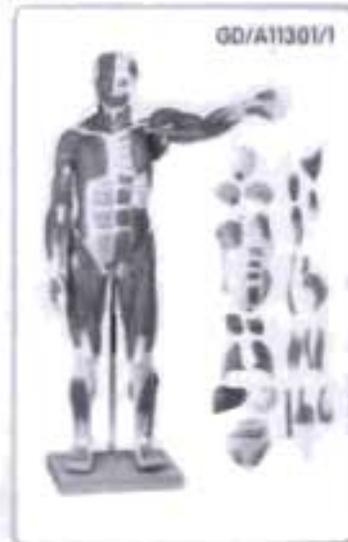
- Life size, dental and oral cavity are separable
- Precise anatomical structure. Include: Jaw gum, Upper dental arch, inferior dental arch, tongue
- Mouth Care
- Demonstration of proper brushing teeth method.

GD/A11301/1 Full Size Human Body Showing Muscles & Organs (86 Cm) :

This full size high quality muscular figure represents a wide variety of human anatomical structures with accurate details. Hence its suitable for various medical colleges, universities, nursing training institutes, laboratories & hospitals.

This model consists of 27 parts, such as muscles of chest wall and abdomen, muscles of upper and lower limbs, skull, brain and viscus. It shows the structure of head, neck, torso, upper and lower limbs, muscles, muscular tendon, ligaments, viscus, blood vessels, brain, etc.

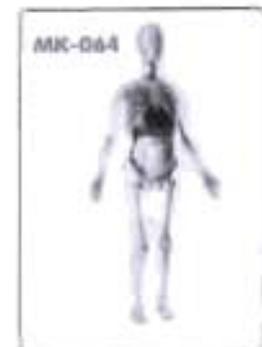
Material : Advanced PVC and painted with imported paint.

**MK-050 Human Torso**

- Hand painted in vivid and natural colours
- 11 dissectible parts
- ABS Base
- Fully illustrated colour
- Instructional manual

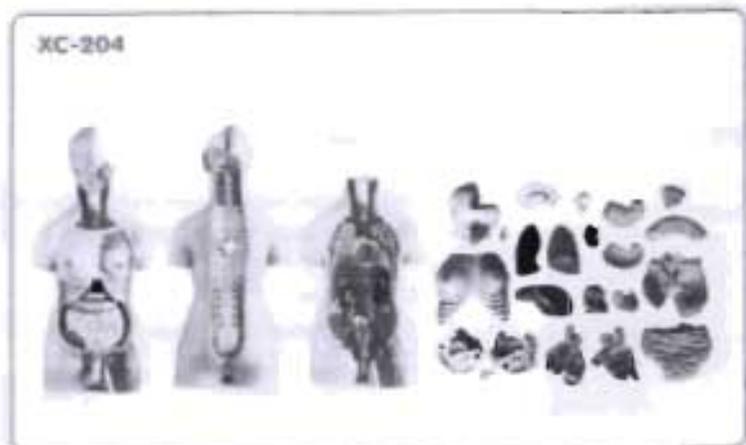
**MK-064 56cm (22") visible Expectant Mother Anatomy Kit :**

- Complete Skin, Skeleton and Vital Organs
- Learn the different part of the Human Body
- Easy Assembly
- Illustrated Instruction Manual

**XC-204 Unisex Torso 23 Parts (85 cm)**

This outstanding torso features an exposed spine with removable vertebrae and spinal cord segments, a female breast plate and interchangeable male and female genitalia. The female organs include a fetus in the womb. Dissectible into 23 parts : torso, female breast plate, head, eyeball, brain, vertebra, spinal nerves, lung (2 parts), heart (2 parts), liver, kidney, stomach (2 parts), intestines (4 parts), male genitalia (2 parts), female genitalia with fetus (3 parts).

Made of PVC plastic. Mounted on a plastic base.



Community Bag

(The bag should have at least four chambers for keeping sterile article (inside), Assessment article, Hand washing articles (outside) & soiled dressing separately. There should be separate pocket to keep test tubes & solution bottle.)

Assessment Articles:-

- Thermometer, Tape Measure,
- Stethoscope, Fetoscope

Hand Washing Articles:-

- Soap Dish with soap, Hand Towel
- Nail Brush

Urine Testing Kit:-

- Test Tubes, Test Tube Holder
- Spirit Lamp, Dropper
- Benedict's solution bottle, Syringe

Dressing Kit:-

- Antiseptic Bottle, Artery Forceps
- Dissecting Forceps non toothed
- Dissecting Forceps toothed
- Bowl Small, Kidney Tray small
- Dressing Scissors

Safe Delivery Kit

One Delivery Kit contains the following items:

A. For Doctors & Paramedical Staffs: -**Pack -1**

Sl. No.	Name of the item with Specification	Quantity
1	Disposable sterilized hand Gloves upto elbow (Size-7")	2 Pairs
2	Disposable Goggles for Eye protection	1 No.
3	Water proof 3 layer Face Mask	1 No.
4	Disposable Shoe cover upto knee with elastic	1 No.
5	Disposable non-absorbable, non-wovwn apron with with full arm elastic (long)	1 No.
6	Disposable Surgeon's Cap universal (ladies & gents)	1 No.

B. For Mother & Baby

In every 4 kits of the above items (A). One kit of the following items (B) to be provided in a pack

Pack -2

Sl. No.	Name of the item with Specification	Quantity
1	Turkish towel wrapper with clip (for wrapping the baby)	1 No.
2	Delivery drape with central hole (non-woven)	1 No.
3	Under layer bedspreads for delivery, non reflectable, white colour, Size- 2.1 x 1.2 meter approx..	2 Nos.
4	Poluthene Bag for placenta and other waste (75Cm x 75Cm)	2 Nos.
5	Cord Clamp	2 Nos.

124

Slit Lamp Applanation Tonometer

Stereo Microscope Type	Galilean
Magnification Changer	Drum rotation
Working Distance	100 mm
Objective Lens Focal Length	f 100 mm
Eye Pieces (Large Optics)	12.5x
Total Magnifications	6x, 10x, 16x, 25x, 40x
Real Field of View	43, 27, 16, 11, 7 mm
Inter Pupillary Distance	55 - 75 mm
Diopter Adjustment Range	-6 D to +6 D
Common Specifications	
Slit image Width	0 to 14 mm continuously variable
Slit image Height	0 to 14 mm continuously variable
Illumination Field Diameter in mm	0.2, 2, 3, 4, 6, 8 & 14 mm
Slit Rotation	0° to 180°
Slit Inclination	5°, 10°, 15°, 20°
Sclerotic Scatter Knob	for Indirect illumination & Retro illumination
Filters	Heat absorbing, Green (Red free), Cobalt blue
Illumination	12 V- 30 W Halogen lamp / 3.4 V-700 mAh LED
Operation	3 Dimensional single handed operation
Instrument base movement	99 mm (in/out), 30 mm (up/down), 118 mm (left/right)
Physical Parameters	
Dimensions L x W x H)	725 x 460 x 555 mm
Weight	net 20 Kg and gross 27 Kg (approx)
Chin rest movement range	120 mm
Electrical Specifications	
Power supply	~110-230 V, 50-60 Hz
Power consumption	45 W max(Halogen) / 2.4 W max(LED)

Specification

Standard Accessories

- Focusing test rod & dust cover (1)
- Allen key(1 set)
- User manual(1),
- Slitlamp dust cover(1)
- Fuse(3)
- Mirror(1)
- Breath shield(1)
- Rack guard(1set)
- Chin rest pins(2)
- Chin rest paper pack(1set)

Optional Accessories at an extra cost

- Manual stand
- Motorized stand
- Hruby lens
- Yellow filter
- Neutral density filter
- I.R.cut off filter
- 12 V- 30 W Halogen lamp
- 3.4 V-700 mAh LED
- Eye pieces 15x for 2 step ,3step & 5 step
- Diffuser filter

Anterior Segment Imaging & Video Documentation

- Beam Splitter, C-Mount, High Resolution CCD Camera (1/2",OSD, S-Video & BNC

AEFI Kit :

1. Injection adrenalin(1:1000)solution - 2 ampoules	8. IV fluids(5% dextrose):1 unit in plastic bottle.
2. Injection hydrocortisone(100mg)-1 vial	9. IV drip set:1set
3. Disposable syringe (insulin type)having0.01ml graduations and 26G IM needle - 2 sets	10. Cotton wool, adhesive tape - 1 each.
4. Disposable syringe (5ml) and 24/26G IM needle -2sets	11. AEFI Case Reporting Form (CRF)
5. Scalp vein set - 2 sets	12. Label showing date of inspection, expiry date of Inj. adrenaline and shortest expiry date of any of the components.
6. Tab Paracetamol (500mg)-10tabs	13. Drug dosage tablets for Inj. adrenaline and hydrocortisone.
7. IV fluids (Ringer lactate/normal saline): 1 unit in plastic bottle.	14. In hospital settings, oxygen support and airway intubation facility should be available.

Doses of Injection Adrenaline (IM)		Doses of Injection Hydrocortisone (IM or slow IV)	
Age	Dosage	Age	Dosage
Less than 2 years	0.0625ml(1/16 th of a ml)	Less than 6 months	25mg
2-5 years	0.125ml(1/8 th of a ml)	6 month-6 years	50mg
6-11years	0.25ml (1/4 th of a ml)	6-12years	100mg
11+ years	0.5ml(1/2 of a ml)	>12 years	200mg

Manu

176
PARA FILM: 2" WIDTH, FLEXIBLE, MOUDABLE, SELF SEALING, ODOUR LESS, MOISTURE RESTANT, THERMO PLASTIC, SEMI TRANPERANT, PRACTICALLY COLOUR LESS.

Auramin O : C1 – 41000 FOR DIC MICROSCOPY.

ETHANOL : C₂H₅OH | LITRE = 0.790 Kg. m=46.07 g/mol

PHENOL: i. THE CHEMICAL STRUCTURE: C₆H₅OH, ii. MOLECULAR WEIGHT: 94: 11 iii. Melting Point 400C +/-2, iv. PURITY: 99.5 %

METHYLENE BLUE : i. THE CHEMICAL NAME METHYLTHIONINE CHLORIDE, ii. MOLECULAR Weight: 319.9, iv dye content: Should be available on the container.

BASIC FUCHSIN: i THE CHEMICAL NAME PARAROSAMILINE HYDROCHLORIDE, ii. THE CHEMICAL STRUCTURE: C₂₀H₂₀ClN₃. iii. MOLECULAR WEIGHT: GREEN, v. DYE CONTENT: SHOULD BE AVAILABLE ON THE CONTAINER APPROXIMATELY 85%-88%.

Janani Stretcher

Technical Specification of Janani Stretcher:

Overall approximate Size (2438x610x400) mm (LxWxH) +/-2 %

3 Minimum Weight Bearing capacity is 140 Kg.

Minimum Ground clearance is 200mm +2%

Density of The MS Pipe Should not be less than 30gm/CM

Stretcher have tubular Mild steel(CRC Grade) frame with non-slippery soft grip at both end of the tubular handle bar for carrying the pregnant women

Instead of stainless steel plate the materials for carrying the pregnant women will be made out of Rexene(Rein Force Fabric of above 400gsm) which is easy to clean and adaptable to the pregnant women

It has 30 to 40 degree inclination for back rest of the patient which is to be adjustable.

Two Safety belts will be provided one at the sternum position and other one at the thigh bone/femoral bone with two Stainless Steel buckles

At both the lateral side there will be two bows(400LX 150Hx25D)mm for holding pregnant women.

Material used for hand rail purpose will be soft to carry the stretcher on shoulder if it is necessary Foot rest with a minimum declination 15 degree and above.

All four legs should have Poly Uritrin shoes

A Ring of 8 mm thick rod with minimum diameter of 75mm to lift the patient at all the four corner of the stretcher

All metal parts should be pre-treated and epoxy powder coated.

Curtains in LR

folding partitions-6 feet high and 6 feet long when opened

Tubular frame (CRCA tubular) mounted on 5cms high quality corrosion free castors with fine quality fire resistance curtains

Pre-Treated and Epoxy Powder coated

Colour: Green

Castors: twin castors 0 50 mm and lockable

Examination table

Overall approx size: 1820 mm Lx 570mm Wx 820mm H (L x W x H) +20mm

Two section with two fold Cushion top of 3"mm thickness made of 40density PU foam

Tubular construction, machine pressed double bend mild steel sheet

Headrest adjusted on ratchet

Legs fixed with rubber feet

Pre-treated and epoxy powder coated

Patient load bearing capacity of 130 kgs minimum

Instrument trolley/Delivery trolley

Overall approximate dimension: 700 mm L x 450 mm W x 800 mm H.

Complete Stainless steel (304 grades) tubular frame mounted on four 100 mm diameter castors with synthetic body two with breaks.

Two Stainless steel (304 grade) minimum 20 gauge shelves with protective railing on three sides

Trolley should have provision of keeping S.S bowel and S.S.Bucket

The Bowel and bucket should be supplied with the trolley

WHEELCHAIR

Technical Specification

- Seat and back easily removable and replaceable
- Fine and durable upholstery for seat and back
- Nylon Handgrips and Padded arm rest
- Polished SS construct
- Solid tire wheels with Rear wheel locks
- Aluminium leg rest-swing away type
- All the Stainless Steel should be 304 grade

STRETCHER ON TROLLEY

- Overall approximate size 2030 mm x 560 mm x 820 mm, 80" x 22" x 32" (L x W x H)
- M.S. tubular framework mounted on four swivel castors, 200 mm (8") diameter two with brake and two without brake.
- Removable stretcher top made of aluminium sheet supported on tubular frame Safety belts provided
- Safe working load of 135 kgs and patient load bearing capacity of 130 kgs.
- Pre-treated and powder coated.

WASH BASIN:

- Scrub sinks are built to be hands-free and assure safety in all surgical environments
- Dimension: Steel sink (18"x18"x9") with one elbow operated tapes
- Fitted with soap dispenser
- The scrub station should be made of Stain less Steel 304 grade
- Should be seamless welded construction, polished to stain finish
- The unit have anti- splash front.

SURGICAL INSTRUMENT

Examination Tray/Instrument tray

- Size: 310X200X600mm Stainless Steel Instrument Tray made of joint less 304 grade stainless steel.
- It should be autoclavable.
- The tray should be equipped with flat cover with Lid
- Manufacturer should be ISO13485 approved
- Product should be BIS/CE approved

EMERGENCY DRUG TRAY –

Standard Size ELECTRIC HUB CUTTER Product Quality Standards: Should be US FDA or CE approved product Electrical safety conforms to standards for electrical safety IEC-60601 Technical Specification: Should be light weight, portable & compact Housing should be moulded type, shock proof and made of ABS plastic/Stainless steel of 304 Grade. Should be provided with removable discharge tray for easy disposal of syringe hubs Should have provision to burn the needle and cut the syringe tip. Should have high Carbon Steel cutter to cut the syringe tips. Should able to cut and destroy the needle up to 18G. Should able to destroy minimum of 5 injection needles on continuous operation. Should have heavy duty transformer. Should have power ON/OFF switch with visual indication Should be properly insulated for protection from electric hazards Should have fuse protection with 5no.of fuse to be supplied of adequate rating. Power Supply: Power supply should be 220-240 V AC, 50Hz with Indian plug. 11-Voltage Stabilizer As per required KV (to be specified...., Input Voltage Range: 90-270 Volts, Copper Core with high voltage protection. IS marked

C KIT:

Particular of Item Specifications No.

Plastic Box :Made up of thermoplastic Plastic attachable fixed lid.

Colour: Transparent white.

Should not be affected by normal extremes of heat or cold. Puneturing proof.

Box Should be labelled as "ANAPHYLAXIS KIT" on top in bold letters

Size: 15cm(Length) x 10cm(Breath) x 04cm(Height)

Inj Adrenaline:3nos. Strength (1:1000) Quantity: 1MI

Insuline Syringe:Syringe should contains 40Unit without fixed needle

Needle: 24/25G of one inch length

Cotton Swab: High absorbing ability, Sterilized, available in air tight packing, 100 % Pure Cotton, White in colour,Minimum weight 20gm

FURNITURE

Instruments & Equipments for Kangaroo Mother Care (KMC)

1. Hospital Bed:

- Should be ISO14001 certified
- Should be ISO9001 certified
- Should be ISO 18001 certified.
- Should be BIFMA certified.

Semi flower's bed made of rectangular M.S. Tube with two sections top. S.S. laminated head & foot boards. Bed mounted on 100mm diacaster. Apprx. Diamention- 200L x 900W x 60H

2. Recline Chair:

Folding gravity recliner chair. Easy to fold & unfold. Unique, strong capsule tube cross frame enables to take load up to 130Kgs.

Frame : power coated round tubular mild steel. Frame : fabrics high quality taxtylene/equivalent. Grossweight

:8Kgs.

Dimensions : Seat : 160x50cms
Seat height :40cms

3. SEMI ICU BED:

Quality standards:

- Manufacturer should be ISO 9001 certified.
- Should have ISO14001- FOR ENVIRONMENT FRIENDLY FEATURES
- SHOULD HAVE ISO 18991 FOR OCCUPATIONAL HEALTH SAFETY MANAGEMENT
- PRODUCTO MUST BE CE/BIS/BIFMA CERTIFIED
- SHOULD FURNISH STAINLESS STEEL GRADE CERTIFICATE FROM GOVT/ GOVT. APPROVED TESTING LABORATORY
- MANUFACTURE SSHOULD PRODUCE TEST CERTIFICATE FORM GOVT/GOVT. APPROVED LABORATORY FOR TEST PROCEDURE LIKE IPACT TEST, BEND TEST, SALT SPARY CHAMBER TEST, EPOXY POWDER COTING & PHOSPATE COATING FOR QUOTED ITEM.
- SEMI FOWLERS BED MADE OF RECTANGULAR M.S. TUBE WITH TWO SECTIOS TOP
- THE TOP SHOULD BE MADE OF CRCA PERFORATED SHEET
- BACK TEST SECTION HAS TO BE MANOEUVRED BY SCREW HANDLE AT FOOT ENT UP TO AN ANGLE OF 60 DEGREE
- 5.5 LAMILNATED HEAD AND FOOT BOARDS.
- BED MOUNTED ON 100 MM DIA CASTER.
- APPROXIMATE DIAMENTION : 200X90 WX 60 H
- FINISH SHOULD BE PRE TREATED & EPOXY POWDER COATED

4. Dental Chair

Standard Configuration

- Dental stool with rotating arm
 - Collision-avoidance System
 - (Chair frame & Backrest Assistant tool tray
 - Auto flush & Water supply, constant temperature system
 - Assistant control System
 - 24V DC Taiwan Motor
 - High- Grade Imported electromagnetic valve (100%)
 - US Water & Air Pipe
 - OPG film Viewer
 - LED Sensor Lamp
 - Flat Bottom Glass Cupholder
 - Strong & Weak Suction
 - Pure Water System
 - 3 Way Springs
 - 2 hole hand-piece tube
 - All Rubber PU leather
 - Multi Functional foot peddle
 - External ground box
 - Painted Chair frame & all metal base
- Power Supply voltage : 220V-50Hz
 - DC Motor's Voltage: 24 V
 - Air Source Pressure: 0.55 MPa
 - Water Source Pressure: 0.2Mpa-0.4Mpa

<p>Bed sight Screen (Screen Separators with stand)</p>	<ul style="list-style-type: none"> • 3 folding partitions - 6 feet high and 6 feet long when opened • Tubular frame (CRCA tubular) mounted on 5cms high quality corrosion free castors with fine quality curtains. • Pre-Treated and Epoxy Powder coated.
<p>Steel Almirah / Cupboard/storage chests</p>	<ul style="list-style-type: none"> • Product Size: 900 mm (W) x 480mm (D) x 1900 mm (H)Height (Approximate20mm+/-) • Construction & Material: Minimum 0.8 mm thick CRCA for Shelf & 0.9 mm thick CRCA for all other components. • Locking: 2 way locking mechanism with shooting bolt provided chrome plated with Handle • Shelving: Minimum 4noswith uniformly distributed load capacity per full shelf is 40-50 Kg maximum Finished with Epoxy Polyester Powder coated.
<p>Examination Table</p>	<p>Technical Specification</p> <ul style="list-style-type: none"> • Overall approx size: 1820 mm L x 570mm W x 820mm H (L x W x H) ±20mm • Two section with two fold Cushion top of 3"mm thickness made of 40density PU foam • Tubular construction, machine pressed double bend mild steel sheet • Headrest adjusted on ratchet • Legs fixed with rubber feet. • Pre-treated and epoxy powder coated • Patient load bearing capacity of 120 kgs minimum.

Almirah

Foot Step	<p>The step stools shall have a maximum load capacity of 150 kg.</p> <p>Stainless steel frame shall be made of square /round steel tubing 20 x 20 mm.</p> <p>Should be double-step type with step heights of are 200 and 400 mm (+/- 10mm) respectively,</p> <p>It should be provided with slip-resistant steps are made of black moulded polyurethane (PU) coated foam plates of minimum 15mm thickness.</p> <p>Overall dimension:590x410x200/400 mm.</p>
I/V Stand	<p>Overall approx. size: height – 150cm-230 cm (with telescopic adjustable height)</p> <p>Main Frame: Strong & Sturdy stainless steel tubular construction mounted on four pronged tubular/rectangular base fitted with five swivel rust proof castors of 50mm diameter.</p> <p>Stainless steel rod with double hooks</p> <p>All the Stainless Steel should be of 304 grade</p> <p>Should be pre-treated and epoxy coated finish.</p>
Items	Specifications
Chairs for patient waiting area	<p>The chair should be heavy duty construction of three seater capacity.</p> <p>The frame structure shall be constructed with durable steel able to resist to rust. All joints shall be welded and all exposed surfaces shall be straight and true to line and curve. The entire structure shall be coated with a layer of anti-corrosion paint followed by another 2 finishing coats either powder coating or nylon polyester coating to withstand periodic cleaning and typical abuse.</p> <p>Color: Black and Silver</p> <p>Size: (L)1700mm*W550mm*480mm Approximate 10mm +/-</p> <p>Material: Metal</p>

1. Furniture and Fixtures

Quality Standard:

- Should be CE/BIFMA/BIS approved model.
- Manufacturer should have ISO 9001 certification for quality management standards.
- Manufacturer should have ISO 14001 certification for environmental management systems.
- Manufacturer should have OHSAS 18001 certification for occupational health & safety management.
- Should furnish stainless steel grade certificate from Govt/Govt. approved testing laboratory.
- Manufacturer should produce test certificate from Govt/Govt. approved laboratory for test procedure like impact test, bend test, salt spray chamber test, epoxy powder coating & phosphate coating for quoted item

Chairs for patient waiting area	<p>The chair should be heavy duty construction of three seater capacity.</p> <p>The frame structure shall be constructed with durable steel able to resist to rust.</p> <p>All joints shall be welded and all exposed surfaces shall be straight and true to</p>
--	--

	<p>line and curve. The entire structure shall be coated with a layer of anti-corrosion paint followed by another 2 finishing coats either powder coating or nylon polyester coating to withstand periodic cleaning and typical abuse.</p> <p>Color: Black and Silver</p> <p>Size: (L) 1700mm * W 550mm * 480mm Approximate 10mm +/-</p> <p>Material: Metal</p>
Foot Step	<p>A double foot step type.</p> <p>Made of 18 G MS steel rectangular/tubular frame.</p> <p>Both the platform should be provided with non-slip ribbed rubber surface</p> <p>The legs should be provided with a non-slip grip.</p> <p>Size 500mm LX 400mm WX 450 H approximate (10mm +/-)</p> <p>Epoxy powder coated finish</p>
Office Chair	<p>Mid back revolving chair seat & back made of 10-12mm thick hot pressed plywood with moulded polyurethane foam. PVC lipping all around. The back foam is designed with contoured lumber support for extra comfort.</p> <p>Dimension:</p> <p>Back: Approximate size 480(W) x 700(H) x 50(T)mm (10mm +/-)</p> <p>Seat: Approximate size 480(W) x 450(D) x 50(T)mm (10mm +/-)mm.</p> <p>The chair should be provided arm rest made of one piece integral skin polyurethane and reinforced with M.S. insert.</p> <p>The chair should have facility for adjustable tilting mechanism, lifting and moving.</p> <p>The chair should be mounted on 4/5 base wheel (castor) of 50/60mm diameter and of 550-600mm pitch center dia.</p> <p>Minimum load bearing capacity 120-130kg.</p>
Office Table	<p>Product Size: 1190(W) x 500(D) x 750(H) approximate with a tolerance of 10mm +/-</p> <p>The frame should be made of CRCA tubular/square tubes)</p> <p>Pre-Treated and Epoxy Powder coated. Should have under drawer provision with lock facility.</p> <p>Manufacturer should be ISO certified.</p>
Screen Separators with stand	<ul style="list-style-type: none"> • 3 folding partitions - 6 feet high and 6 feet long when opened • Tubular frame (CRCA tubular) mounted on 5cms high quality corrosion free castors with fine quality curtains. • Pre-Treated and Epoxy Powder coated.
Steel Almirah / Cupboard/storage chests	<ol style="list-style-type: none"> 1. Product Size: 900 mm (W) x 480mm (D) x 1900 mm (H) Height (Approximate 20mm +/-) 2. Construction & Material: Minimum 0.8 mm thick CRCA for Shelf & 0.9 mm thick CRCA for all other components. 3. Locking: 2 way locking mechanism with shooting bolt provided chrome plated with Handle 4. Shelving: Minimum 4 nos with uniformly distributed load capacity per full shelf is 40-50 Kg maximum Finished with Epoxy Polyester Powder coated.
Stool for attendants	<ul style="list-style-type: none"> • Tubular tripod based with S.S. revolving top. • Height adjustable from approximately 460 mm to 650 mm by accurately machined screw mechanism. • S.S foot ring supports • Legs fitted with rubber PVC stumps. • Pre-treated and powder coated finish.

2. Bed Side Locker

Quality Standard

- Should be CE approved model.
- Should be BIFMA approved model
- Should be BIS approved model.
- Manufacturer should have ISO 9001 certification for quality management standards.
- Manufacturer should have ISO 14001 certification for environmental management systems.
- Manufacturer should have BS OHSAS 18001 certification for occupational health & safety management.
- Should furnish stainless steel grade certificate from Govt/Govt. approved testing laboratory.
- Manufacture should produce test certificate from Govt/Govt. approved laboratory for test procedure like impact test, bend test, salt spray chamber test, epoxy powder coating & phosphate coating for quoted item

Specification

Technical Specification:

- Overall Size (Approx): 40 (H) x 40 (W) x 80 (H) cms.
- Should have an enclosed locker unit which is provided with 50 mm dia non rusting castors for mobility.
- A stainless Steel tray top with raised borders on 3 sides forming the upper surface.
- Drawer should be fitted with smooth slides.
- Should be provided with shelf space for storage under the Drawer with locked Cabinet at below.
- Drawer and cabinet should have front door.
- Should have one drawer & one cabinet box with self space in between.
- The body should be made of 20 G MS CRCA sheet.
- Two buffers shall be provided at rear side of the locker box.
- All MS parts to be pre-treated and epoxy powder coated.
- All SS to be of 304 Grade and 16 Gauge.

Multi Para Monitor (7 Para)

General Features-

- Light Weight, Compact and portable.
- High Resolution with screen size 12.1" Color TFT Display.
- Alarm : Audible and Visual Alarm with alarm event review.
- Detachable Rechargeable Lithium battery.

- ECG waveforms of 7 leads display on the same screen.
 - 72 hours graphic and tabular of all parameters
 - 72 alarm events of all parameters recall.
 - 32 seconds full - disclosure waveforms review
 - Arrhythmia analysis and S-T segment analysis and its detection
 - 500 NIBP measurement data can be store and recall
 - Data and waveforms color can be store and recall
 - Suitable for adult, paediatric and neonatal patients
 - Battery backup- 2 hours

Technical Specifications (SpO₂)

- Measurement Range : 0 ~ 100%
- Accuracy for spO₂ : 2% [for 70 ~ 100%] and unspecified for 0 ~ 69%
- Pulse Rate
 - Range : 30 ~ 250 bpm, Accuracy for PR : 3 bpm

Patient Examination Stool (Hydraulic)

Standard Height-19 1/2" to 26 1/2"

Overall Height w/Backrest-35 1/2" to 42

1/2" Base Diameter-24"

Hydraulic Height Adjustment Seat Diameter-16"

Rotation Lock

COM Requirements 1yd.

Weight Capacity 300lbs.

Patient Examination Couch

- Frame Work of the bed is made of Rectangle & square tube
- It has 2 Section Cushioned top.
- The body section is mounted on 10cm castors
- The Back Section is adjustable by electric actuator control by remote
- The height is adjustable by electric actuator control by remote upto 80cm
- Product Size: 183L x 60W x 60H cms
- Knock Down Construction to save freight
- We are Exporters, Manufacturers and Suppliers of Electric Examination Couch at wholesale competitive prices from India

Examination Table

Overall approx size: 1820 mm L x 570mm W x 820mm H (L x W x H) ± 20 mm • Two section with two fold Cushion top of 37mm thickness made of 40density PU foam • Tubular construction, machine pressed double bend mild steel sheet • Headrest adjusted on ratchet • Legs fixed with rubber feet. • Pre-treated and epoxy powder coated • Patient load bearing capacity of 130 kgs minimum.

- Should have BIFMA certificate.

SECTION -III BCL Items

Name of the Item	Specification
TOWEL (BIG)	Length 150,breadth=70 cm,wt minimum 500gm (Cotton Turkish white double side stich)
TOWEL (SMALL)	Length 60cm,breadth=40cm,wt.minimum 150gm (Cotton Turkish white double side stich)
PILLOW (FOAM)	Length=65cm,breadth=40cm, foam quality should confirm to IS7933:1975 (Reaffirmed 2003)
PILLOW COVER (COTTON) WHITE BLEACHED	Length=70cm breadth=45cm)excluding border (White Bleached, All side zigzagstiching with border of 2.5cm in each side)
BLANKET COTTON FOR CHILD	Length=115cm breadth=80cm (Bottle green colour,all side zigzagstiching with 4cm in each side,velvate border)
LEGGINGS	
MATS(NYLON)	Size (L) 56"x (w) 22" , Material nylon
BLANKET COTTON FOR ADULT	Length=230cm breadth=150cm (Bottle green colour,all side zigzagstiching with 4cm in each side,velvate border)
BED SHEET (COTTON) WHITE BLEACHED BOTH SIDE STITCHING	Length=230cm breadth=150cm (cotton, White Bleached,both side stiching)
LONG CLOTH (GREEN)	Breadth=89 cm (Cotton for making O.T. gown,apron,towel etc.)
DURRY	Size :Width 90cm x Length:2 meters
O.T.TOWEL	Length=100cm, Breadth=89cm (cotton green, both side stich)
MATTRESS (ADULT)	(Rubbeerized Coir) (Size-75" x 36" x 3") with rexine cover
MATTRESS (CHILD)	(Rubbeerized Coir) (Size-68.58cm x132.08cm x 3") with rexine cover

Abdominal Sheet	Length=100cm, Breadth=89cm (cotton green, both side stitch)
MOSQUITO NET	SINGEL BED, SIZE: RECTANGULAR, L: 180 CM x W: 100 CM x H: 150 CM MATERIAL: 100% POLYESTER, DURABLE, STRONG & NON-GLAMMABLE.
Face mask cotton	Green color , 100% cotton / micro cotton washable, autoclavable
Tetra for surgical procedure	100% cotton gauze , absorbent and autpclavable .size 15 inch *15 inch with facility to hang for dying

DisposableGown:

- Colour : Blue, White, Green
- Size : Universal size of 130 x 150cm
- Material : Mix of polyester & cotton
- Type : Unstitched
- Application :43/50 gsm SMMMS highest grade trilaminate nonwoven from Ahlstrom/ SAAF. Knitted soft wristcuffs

- Patient Gown: 25 GsmPPSB
- Surgeon's Gown: 40 GsmPPSB
-

Technical Specification for Surgeon's Gown:

- Disposable gown should be made up of non-woven cloth.
- Should be approx. 1 mtr. 30cm.
- Should be provided with double packing.
- Should be provided in sterilized form.

Technical Specification for Patient Gown:

- Opening in front or in back.
- Gowns have attached ties.
- Tissue-Poly-Tissue 3-Ply material.
- Gowns are 30 x 40"

Disposable DrawSheet:

- Disposable
- It should be made up of SMS cloth
- It should be good quality interlining fabric with 40Gsm capacity.
- Should be Waterproof.
- Should be provided in double packing.
- Size: 120cm x 100cm
- The fabric composite should be strong, durable, anti-microbial, anti-static flame resistant, stain, odor and fluid resistant.
- The material should be of high grade, soft texture, top quality and skin friendly.

NEW BORN BABY KIT

- Made up of flannel material, for maintaining warmth of the baby, sterile, & packed in a single unit per

186

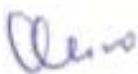
kit with date of sterilization.

- A single kit contains 1 no. of baby dress, cap, pair of socks and a pair of gloves.
- ISO 9001:2015 & ISO 10002:2018 Certified company.
- Must be CE certified.

12. Mackintosh sheet: material: rubber & polymer, autoclavable, thickness: 2mm, width: cm, Rate should be quoted in meters.
13. Perineal sheet for OT: Material: pure cotton, Size: 60" x 80", Color: Sky Blue or Green
14. Abdominal sheet Colour: Green, Fabric: Cotton, Size: 84" x 72"
15. Table Cloth: Size: 48" x 48"
16. Doctor's Over Coat: Fabric: Cotton, Unisex, color: white, size: XL/L/M, Half Sleeves
17. Hospital worker Coat Fabric: Cotton, Unisex, Sleeves Type: Half Sleeves, size: XL/L/M, Color: sky blue
18. Patient House Coat (for females): Fabric: Cotton, Sleeves Type: Half Sleeves, size: XL/L/M, Color: Light Green
19. Patient pyjama for male: Fabric: Cotton, color: light Blue, Size: XL/LM
20. Bed spreads :Size 60" (w) X 92" (l), Material: cotton shrinkage proof

SECTION (IV)

Name of the Item	Specification
(Low Cost Swing bins) Waste Bin (Red, Blue, Black & Yellow)(Size: 30 Liters with swing lid)	The Bin should have bio hazardsymbol with color waste logo, government of odisha supply. The manufacturer should be an ISO certified company with manufacturing licenses of color biomedical waste management bins.
White Jerri Can 5 Liters	Puncture Proof Container
Disposable Polythene Bags (Red, Blue, Black & Yellow)	Bio degradable, with proper size as per the Bins (30 Liter)
Needle Syringe Terminator (Electrical)	Electrical
Sodium Hypochloride Solution -1%	5 Liter Jar
Sodium Hypochloride Solution (10%)	5 Liter Jar
Hub Cutter	250ml/500 ml /1000 ml
Rubber Gloves	For BMW
Grum Boot	FOR BMW
Wheel Barrow	<p>Manufacture to be an ISO/ CE certified</p> <ul style="list-style-type: none"> • The frame of wheel borrow shall be properly harrow welded MS or MS pipe as required , • Workmen ship & finish: the frame of the wheel barrow shall be properly welded with smooth finish without sharp age. • The frame shall be painted with single coat of red oxide enamel & two coat of synthetic enamel paint.
protective apron	Made of Plastic
protective Mask	Made of Pullypropioline
protective cap and goggles	Regular Size


 CDM & PHO-Cum-DMD
 Balangir