



GOVERNMENT OF ANDHRA PRADESH

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Web Site : <https://tender.apecurement.gov.in>

TENDER DOCUMENT

FOR

**Procurement and supply of equipment, and other items to 50 bedded AYUSH Hospital
Kakinada in Andhra Pradesh (e- Procurement)**

Tender Notice No. : 1.9A/APMSIDC/2025-26, Dt: 20.05.2025

Name of the Agency :
.....

and Address
.....
.....

Implementing Agency :

**ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE DEVELOPMENT
CORPORATION**

(Formerly APMHIDC)

(AN ENTERPRISE OF GOVT. OF A.P.)

**2nd Floor, Plot No:09, survey number: 49, IT Park, Mangalagiri,
Guntur District- 522503.**

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INTRODUCTION

- 1.1. The Andhra Pradesh Medical Services & Infrastructure Development Corporation – APMSIDC (formerly APMHIDC) (Tender Inviting Authority) is a fully owned Government of Andhra Pradesh for providing services to the various health care institutions under the Department of Family Welfare and Health. One of the key objectives of the APMSIDC is to act as the central procurement agency for all essential drugs and equipments for all health care institutions (hereinafter referred to as user institutions) under the department. The corporation has also been entrusted with the setting up and running of all kinds of modern Medical and Paramedical or medical based ancillary facilities such as hospitals, pathological labs, diagnostic centres, x-ray/scanning facilities.
- 1.2. Over the last decades, several equipment have been procured and installed in the various health care institutions under the government under different schemes. One of the major problems encountered is the maintenance of the equipment. Site preparation, timely replacement of consumables, calibration of sensitive equipment, up gradation of technology, training to the doctors and paramedical staff- all poses problems. The corporation has been formed by the government to fill in these grey areas and to act as total service providers to the all the government health care institutions. Of course, this mammoth task could be achieved only with the active involvement and support of the manufacturers/dealers of the equipment.
- 1.3. In this tender, the lowest price is the sole criteria for selecting the equipment/supplier. The two-bid system, which is followed, has been designed to eliminate those equipment which do not match the technical specifications, or not having the proven technology and to eliminate firms that do not have the financial or technical capability to supply, install and maintain the equipment. i.e., to provide after sales support for a period of minimum 5 years from the date of installation and to ensure 98 % uptime in performance/operation of the equipment.
- 1.4. The payment to the successful tenders will be settled after obtaining a 'three month performance certificate' from the head of the user institution - three month period is a period of trail run- during which the performance of the equipment will be keenly observed. At the same time, it may be noted that the Corporation is not the agency finalizing the requirements of equipment and their technical specifications. These parameters are finalized by the user institutions and funding agencies and forwarded to the corporation for procurement. On our side, we ensure that the technical specifications are not biased towards a particular equipment/firm, through consultations during the pre-tender meetings with the prospective tenderers. Amendments in the terms and conditions of the tender documents may be resorted to on the basis of expert advice to see that more than one firm qualifies for the final round. Technology specific specifications/conditions and entertaining direct purchase will be undertaken, if and only if, the user agency certifies the equipment required is of proprietary nature. Since the equipment procured are dealing with precious human life in government hospitals, depended by the poor and downtrodden of the society, it is our endeavor to ensure that most modern, but proven and durable equipment are procured and supplied. The tender documents are prepared after assessing the market to meet such objectives.

- 1.5. Every paisa spend by the corporation is public money and hence accountable. Therefore, after sales service and up-time guarantee on the performance of the equipment purchased by the Corporation have to be given paramount importance. Corporation will be dealing with defaulters in these fronts with a firm hand, which may lead to black listing and recovery of damages. We request our valuable suppliers to avoid such unpleasant situations.
- 1.6. It is also essential while dealing with public money that utmost transparency has to be maintained in the procurements of the corporation. All decisions will be published from time to time on our website www.apmsidc.ap.nic.in. The corporation will not wait for the mandatory 30 days period to provide any information under Right to Information Act and will provide the information within the minimum possible time. The Corporation will uphold the fundamental "right to be heard" enshrined under the Constitution of India and will take harsh decisions only after providing opportunity for hearing/submission of facts. Tenderers could prefer appeal to the government against all decisions of the corporation.

SECTION - I: INVITATION FOR BIDS (IFB)

GOVERNMENT OF ANDHRA PRADESH

ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE DEVELOPMENT CORPORATION (APMSIDC)

Tender Notice No. 1.9A/APMSIDC/2025-26, Dt: 20.05.2025.

1. Bids are invited on the e-procurement platform for certain medical equipment as described in the Section V- Schedule of Requirements from the eligible manufacturers/Authorized Distributors. The details of bidding conditions and other terms can be downloaded from the electronic procurement platform of Government of Andhra Pradesh i.e. <https://tender.apecurement.gov.in>.
2. Bidders would be required to register on the e-Procurement market place "www.eprocurement.gov.in" and submit their bids online. On registration with the e-Procurement market place they will be provided with a user id and password by the system through which they can submit their bids online.
3. The bidders need to scan and upload the required documents as per the Check list given in **Annexure XIV**. Such uploaded documents pertaining to technical bid need to be attached to the tender while submitting the bids on line. The attested copies of all these uploaded documents of technical bid, signed undertaking of tenderer should be submitted off line to **Managing Director, APMSIDC, Mangalagiri, Guntur on or before the next day of the last date of submission of bids**. The Corporation will consider only the bids submitted through on-line over the copies of the paper based bids.
4.
 - a) The participating bidder/s will have to pay tender processing fee (non-refundable) **for the amounts specified in the Schedule of Requirements (Section –V)**, in the form of online only.
 - b) **Further the bidder/s shall furnish, as part of it bid, the Bid security for the amounts specified in the Schedule of Requirements (Section –V) to be paid** in the form of crossed Demand Draft drawn in favour of Managing Director, APMSIDC, Guntur along with bids. The bidders should note that the local MSME units are exempted from payment of E.M.D, subject to the production of necessary documentation to that extent by them.
 - c) Further all the participating bidders have to electronically pay a non-refundable transaction fee to M/s. APTS, the service provider through "Payment Gateway Service on E-Procurement platform", as per the Government Orders placed on the e-procurement website.
 - d) The Corporation shall not hold any risk on account of postal delay. Similarly, if any of the certificates, documents, etc., furnished by the tenderer are found to be false / fabricated / bogus, the bidder will be disqualified, **blacklisted for a period of 3 years**, action will be initiated as deemed fit and the EMD will be forfeited.
 - e) **“Complaint/s: Any complaints/representation regarding tender will be entertained only after depositing of Rs. 25,000/- in form of Demand Draft in the name of Managing director, APMSIDC, Mangalagiri, Guntur. Subsequently necessary action will be taken by the Managing Director and decision of Managing Director will be binding**

upon the complainant. If the complaint turns out to be false or invalid the amount will be forfeited. The amount shall be refunded if after scrutiny the complaint is found to be true. No further complaint/representation from the same complainant for the same tender will be entertained. If the complaint or allegation made is found to be false or baseless and without any valid point, the tender inviting authority in its discretion, can prevent / blacklist / declare ineligible, such bidder from participating in its procurement process, either indefinitely or for a stated period of time.”

5. **Period of Delivery:** **60** Days from the date of receipt of the Notification of Award (Purchase Order) of Contract. The delivery terms include the total time given for supply, installation, testing and training of staff.

Time Limits prescribed

| Sl. No | Activity | Time Limit |
|--------|---|---|
| 5.1.1. | Installation & Delivery period | 60 Days from the date of receipt of the Notification of Award (Purchase Order) of Contract |
| 5.1.2. | Comprehensive warranty period | as specified at section V schedule of requirements against each equipment. |
| 5.1.3. | Frequency of visits to all User Institution concerned during Warranty | One visits every three months (4 visits in a year) for periodic/preventive maintenance and any time for attending repairs/break down calls. |
| 5.1.4 | Submission of Performance Security and entering into contract | 15 days from the date of issuance of Supply Order |
| 5.1.5 | Payment Installments of Price of equipments and ratio | Three Installments and in the ratio 60:30:10 |
| 5.1.6 | Time for making payments by Tender Inviting Authority | Within 60 days from the date of submission of proper documents |
| 5.1.7. | Maximum time to attend any Repair call | <i>Within 48 hours</i> |
| 5.1.8 | Uptime in a year | 95% |

6. **Bidders eligibility and qualifications: Defined at Clause 13 of Instructions to Bidders (Section II) and Qualification Criteria (Section-VI)**

7. Details of Tender Process:

| | | |
|----|--|---|
| 1. | Downloading of documents | from 07-08-2025 to 28-08-2025 up to 02.55 P.M |
| 2. | Queries up to | 12.08.2025 @ 11.00 A.M |
| 3. | Due date for Receipt of tenders | 28-08-2025 up to 03.00 P.M |
| 4. | Time and date of opening of technical Bids | 28-08-2025 @ 03.01 P.M |
| 5. | Time and date of opening of financial bids | Will be intimated later |

Note: The dates stipulated above are firm and under no circumstances they will be relaxed unless otherwise extended by an official notification or happen to be Public Holidays. For the assistance in the online submission issues, the bidder may contact the help desk of M/s Vupadhi Techno Services Pvt. Ltd. (e-procurement) at their e-mail address: eprocsupport@vupadhi.com or on the mobile nos. **8645-246370 / 71 / 72 / 73 / 74**

8. Procedure for Bid Submission

- a. The Tenderers/Bidders who are desirous of participating in e-procurement shall submit their technical bids, price bids etc., in the Standard formats prescribed in the Tender documents, displayed at e-procurement market place.
- b. The bidders shall sign on all the statements, documents, certificates, uploaded by them, owning responsibility for their correctness / authenticity.
- c. The hard copies of all the uploaded Technical / Price bid, to be attested by a Gazetted Officer or properly notarized.
- d. The Corporation shall not hold any risk on account of postal delay. Similarly, if any of the certificates, documents, etc., furnished by the tenderer are found to be false / fabricated / bogus, the bidder will be disqualified, blacklisted, action will be initiated as deemed fit and the EMD will be forfeited.
- e. The Corporation will not hold any risk and responsibility for the loss in transit during uploading of the scanned document, for the invisibility of the scanned document online, and any other problem(s) encountered by the Tenderers while submitting his bids online.

9. Important Instructions to the Bidders:

- 9.1 Quality of Supplied Equipment throughout its life cycle period, timely supplies and prompt maintenance support during the warranty and CMC period without default are being given paramount importance by the Corporation. The Corporation will be dealing with the defaulters with firm hand, which may lead to blacklisting for a specified period in addition to levying penalties.
- 9.2 In case of complaints on the quality and poor maintenance support of the products supplied, bills will be withheld till receipt of Satisfactory reports. Further:
 - If one item of any Supplier is found of 'Sub-Standard Quality' during the Contract period, then that particular item will be blacklisted for a period of (3) three years immediately succeeding the Contract year
 - If two items of any Supplier are found of 'Sub-standard Quality' during the Contract period, then Supplier will be blacklisted for a period of (3) three years immediately succeeding the Contract year
- 9.3 The Corporation will blacklist the Supplier, who is declared as 'Undependable for two (2) items or in two (2) instances during the Contract period, for a period of one year

immediately succeeding the Contract year apart from taking other penal actions under the Contract.

- 9.4 The decision of the Managing Director, APMSIDC, or any officer authorized by him in respect of the quality of the supplied Equipment and other goods etc., shall be final and binding.
- 9.5 No claims shall be allowed against the APMSIDC in respect of interest on Earnest Money Deposit or on Security Deposit or late payments.
- 9.6 Savings Clause: No suit, prosecution or any legal proceedings shall lie against APMSIDC or any person for anything, which is done in good faith or intended to be done in pursuance of bid.

SECTION - II : INSTRUCTIONS TO BIDDERS

TABLE OF CLAUSES

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| 2 | Eligible Bidders | 19. | Dead line for submission of Bids |
| 3 | Eligible Goods & Services | 20 | Late Bids |
| 4 | Cost of Bidding | 21 | Modification & Withdrawal of Bids |
| | B. Bidding Documents | | E. Bid Opening & Evaluation |
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| | | 35. | Performance security. |
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A. Introduction

1. Source of funds:

The funds are made available by the State Government of Andhra Pradesh, to the Managing Director, APMSIDC Scheme wise towards the procurement processed under this tender notification.

2. Eligible Bidder

2.1 This invitation for Bids is open to all Manufacturers or their authorized distributors, who fulfill the eligibility criteria mentioned in the Clause 13 and who meet qualification criteria mentioned in the Section VI.

3 Eligible Goods and services

3.1 All goods and ancillary services to be supplied under the contract shall have their origin in eligible source country. The goods shall meet the requirements as specified in the Technical Specifications. And meet the eligibility criteria as given at Clause 14 of ITB.

3.2. For purpose of this clause, "origin" means the place where the goods are mined, grown, or produced or from which the ancillary services are supplied. Goods are produced, through manufacturing processing or substantial and major assembling of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.

3.3 The origin of goods and services is distinct from the nationality of the Bidder.

4. Cost of bidding.

4.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Managing Director, APMSIDC, Mangalagiri, Guntur here in after referred to as " the purchaser", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

B. The Bidding Documents

5. Content of Bidding Documents

5.1 In addition to the Invitation for Bids, the bidding documents include:

- (a) Instruction to Bidders;
- (b) General conditions of contract;
- (c) Special conditions of contract;
- (d) Schedule of requirements;
- (e) Technical specifications;
- (f) Bid form and price schedules;
- (g) Bid security form;
- (h) Performance security form.
- (i) Firm Registration/manufacturer license
- (j) Performance statement form.
- (k) Declaration Form
- (l) Check List of the documents uploaded on e-platform as part of the bid

5.2 The bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the bidders risk and may result in rejection of its bid.

6. Clarification of bidding documents

6.1 A prospective Bidder requiring any clarification of the bidding documents may notify the purchaser in writing at the purchasers mailing address indicated in the Invitation for bids. The purchaser will respond in writing to any request for clarification of the Bidding documents if the same is received in the first week of the tender notice prescribed by the purchaser. Written copies of the purchaser's response (including an explanation of the query but without identifying the source or inquiry) will be sent to all prospective bidders which have received the bidding documents.

7. Amendment of bidding documents

7.1 At any time prior to the deadline for submission of bids, the purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by prospective bidder, modify the bidding documents by amendment.

7.2 The amendment will be notified online.

7.3 In order to afford prospective Bidders reasonable time in which to take the amendment into account in preparing their bid, the purchaser may, at its discretion, extend the deadline for the submission of bids.

C. Preparation of Bids

8. Language of Bid.

8.1. The Bid prepared by the Bidder and all correspondence and documents relating to the bid exchanged by the bidder and the purchaser, shall be written in the English language, provided that any printed literature furnished by the Bidder may be written in another

language so long as accompanied by an English translation of its pertinent passages in which case, for purposes of interpretation of the bid, the English translation shall govern.

9. Documents comprising the bid

9.1 The bid prepared by the bidder shall comprise the following components:

1. Technical Bid:

- (a) A Bid form completed in accordance with clause 10
- (b) Documentary evidence established in accordance with clause 13 that the bidder is eligible to bid and is qualified to perform the contract if its bid is accepted.
- (c) Documentary evidence established in accordance with clause 14 that the goods and ancillary services to be supplied by the Bidder are eligible goods and services confirm to the Bidding Documents; and
- (d) Bid security furnished in accordance with clause 15.

2. The Price Bid completed in accordance with clauses 11 and 12.

10. Bid Form

10.1 The Bidder shall complete the bid form provided in the Bidding documents, indicating for the goods to be supplied, brief description of the goods, their country of origin and quantity and other declaration statements.

11. Bid prices.

11.1 The Bidder shall indicate on the appropriate price schedule, made available in the e-procurement platform and a model format is also attached to these documents, the unit prices and total bid prices of the goods it proposes to supply under the contract, for each item separately. **The unit prices shall be rounded off to nearest Indian rupee.** The bidder may quote one or more items for which copy of necessary **documents**, wherever necessary have to be produced along with the bid.

11.2. Prices indicated on the price schedule shall be entered separately in the following manner:

- (i) The price of the goods, quoted ex-factory, ex-showroom, ex-warehouse, or off-the-shelf, or delivered, as applicable, including all duties and sales and other taxes including transportation, installation, commissioning at site and all incidental charges associated with the contract.
- (ii) Cost of **4 years** Comprehensive Maintenance Contract as defined in the Clause 18 of the Special Conditions of the Contract.

11.3 The Bidder's separation of the price components in accordance with para 11.2 above will be solely for the purpose of facilitating the comparison of bids by the purchaser and will not in any way limit the purchaser's right to contract on any of the terms offered.

11.4 Fixed Price. Price quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation except for any changes made by the Statute in respect of local taxes. A bid submitted with an adjustable price quotation will be treated as non-responsive and rejected, pursuant to clause 24.

12. Bid currencies.

12.1 Prices shall be quoted in Indian Rupees; Bids quoted other than Indian currency will be rejected.

13. Documents Establishing Bidder's Eligibility and Qualifications.

- 13.1 Pursuant to clause 9, the bidder shall furnish, as part of its bid, documents establishing the bidder's eligibility to bid and its qualifications to perform the contract if its bid is accepted
- 13.2 The documentary evidence of the Bidder's eligibility to bid shall establish to the purchaser's satisfaction that the bidder, at the time of submission of the bid, is an eligible bidder as defined under clause 2.
- 13.3 The documentary evidence of the Bidders qualifications to perform the contract if its bid is accepted, shall establish to the purchaser satisfaction;
- (a) That, in the case of bidder offering to supply goods under the contract which the bidder is manufacture produce, **Firm Registration/manufacturer license that the bidder is manufacturer & also Memorandum of Articles.** or otherwise produce, the bidder has been duly authorized (as per authorization form in section XII a).
 - (b) that, in the case of bidder offering to supply goods under the contract which the bidder did not manufacture or otherwise produce, the bidder has been duly authorized (as per authorization form in section XII b) by the goods manufacturer or producer to supply the goods in India.
 - (i) the legal status, place of registration and principle place of business of the company or firm or partnership etc.
 - (ii) Details of experience and past performance of the bidder on specified item offered in the bid within the past three years and details of current contracts in hand and other commitments (suggested proforma given in section XI);
 - (iii) **Copy of the GST Certificate and Details of IT Returns- PAN & TIN copies**
 - (iv) The details in compliance to the Qualification Criteria (Section VI).

13.4 The check list for the details of documents to be submitted is given at Annexure XIV

14. Documents Establishing Goods Eligibility and conformity to bidding documents.

- 14.1 Pursuant to clause 9 the bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding document of all goods and services which the bidder proposes to supply under the contract.
- 14.2 The documentary evidence of the goods and services eligibility shall consist and of statement in the price schedule on the country of origin of the goods and services offered which shall be confirmed by a certificate of origin at the time of shipment.
- 14.3 The documentary evidence of the goods and services conformity to the bidding documents may be in the form of literature, drawings and data, and shall furnish:
- (a) A detailed description of the goods essential technical and performance characteristics of the goods.
 - (b) A clause by clause commentary on the purchaser technical specifications demonstrating the goods and services substantial responsiveness to those specifications or statement of deviations and exceptions of the Technical specifications.

14.4 For purpose of the commentary to be furnished pursuant to clause 14.3 above, the bidder shall note that standards for workmanship, material and goods, and references to brand names or catalogue numbers designated by the purchaser in its technical specifications are intended to be descriptive only and not restrictive. The bidder may substitute alternative standards, brand name and / or catalogue numbers in its bid, provided that it demonstrates to the purchasers satisfaction that the substitutes are substantially equivalent or superior to those designated in the Technical specifications.

15. Bid security

15.1 Pursuant to Clause 9, the Bidder shall furnish, as part of it bid, the Bid security for the amounts specified in the Invitation for Bids (Section -1)

15.2 The bid security is required to protect the purchaser against risk of bidders conduct which would warrant the security forfeiture, pursuant to clause 15.7

15.3 The bid security shall be in Indian Rupees and shall be in online only.

15.4 Any bid not secured in accordance with para 15.1 and 15.3 above will be rejected by the purchaser as non-responsive pursuant to clause 24.

15.5 Unsuccessful Bidder's bid security will be discharged/ returned as promptly as possible but not later than 30 days after the expiration of the period of bid validity prescribed by the purchaser pursuant to clause 16.

15.6 The successful Bidder's bid security will be discharged upon the Bidders executing the contract, pursuant to clause 34 and furnishing the performance security pursuant to clause 35.

15.7 The bid security may be forfeited;

- (a) If a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid form; or
- (b) In case of successful Bidder, if the Bidder fails;
 - (i) to sign the contract in accordance with clause 34; or
 - (ii) to furnish performance security in accordance with clause 35.
- (c) If the Bidder does not accept the corrected amount the Bid will be rejected, and the Bid security may be forfeited.

16. Period of validity of Bids.

16.1 Bids shall remain valid for 90 days after the date of bid opening prescribed by the purchaser pursuant to Clause 19.1. A bid valid for shorter period may be rejected by the purchaser as non-responsive.

16.2 In exceptional circumstances, the Purchaser may solicit the Bidders consent to an extension of the period of validity the request and the responses thereto shall be made in writing (or by mail). The bid security provided under clause 15 shall also be suitably extended. A bidder may refuse the request without forfeiting its bid security.

17. Format and signing of Bid.

- 17.1 The bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the bidder to the contract. The latter authorization shall be indicated by written power-of-attorney accompanying the bid. All pages of the bid, except for unammended printed literature, shall be initialed by the person or persons signing the bid.
- 17.2 The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors and made by the bidder in which case such corrections shall be initialed by the person or persons signing the bid.

D. Submission of Bids

18. Sealing and Marking of bids.

- 18.1 The bids shall be uploaded (submitted) electronically, as described in the Invitation for Bids (Section –I). The hard copies of the bids in sealed covers must be received by the Purchaser at the address specified above on or before the due date of submission of bids (Section –I).
- 18.2 The Bids shall be addressed to the purchaser at the following address:
- The Managing Director, APMSIDC, 2nd Floor, Plot No:09, survey number: 49, IT Park, Mangalagiri, Guntur District- 522503.
- 18.3 The Bids shall bear the name of the invitation for bids (IFB) and Number and also the words "Do not open before 03.00 P.M Hrs on 28-08-2025". The envelopes shall indicate the name and address of the Bidder to enable the bid to be returned unopened in case it declared "late".
- 18.4 If the envelope is not sealed and marked as required by Para 18.2 and 18.3 above, the purchaser will assume no responsibility for the bids misplacement or premature opening.

19. Deadline, for submission of bids.

- 19.1 The Bids (both electronic and Hard copies) must be received by the purchaser, no later than the time and date specified in the Invitation for Bids (Section I). In the event of the specified date for the submission of Bids being declared a holiday for the purchaser, the Bids will be received up to the appointed time on the next working day.
- 19.2 The purchaser may, at its discretion, extend this deadline for submission of bids by amending the bid documents in accordance with clause 7, in which case all rights and obligations of the purchaser and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

20. Late Bids.

- 20.1 Any bid received by the purchaser after the deadline for submission of bids prescribed by the purchaser, pursuant to clause 19, will be rejected and/ or returned unopened to the Bidder.

21. Modification and Withdrawal of Bids.

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

21.2 No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid form. Withdrawal of bid during this interval may result in the Bidders forfeiture of its bid security , pursuant to Clause 15.7

E. Bid Opening and Evaluation

22. Opening of Bids by Purchaser

- 22.1 The Purchaser/or his authorized representative will download the technical bids on **28-08-2025** at 03.01 PM.
- 22.2 The Financial Bids of the Technically responsive bidder would be downloaded subsequently from the e-platform, once the technical evaluation is completed.

23. Clarification of Bids.

- 23.1 To assist in the examination, evaluation and comparison of bids the purchaser may at his discretion, ask the Bidder for clarification of his bid. The request for clarification and the response shall be in writing and no change in price or substance of the bid shall be sought, offered or permitted.

24. Technical Evaluation (Preliminary Examination and Pre-Qualification)

- 24.1 The purchaser will examine the bids to determine whether they are complete, whether required securities have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
- 24.2 Prior to the financial evaluation, pursuant to clause 26, the purchaser will determine the responsiveness of each bid to the bidding documents. For purposes of these clauses, a responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations. The purchaser's determination of bids responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- 24.3 Further the purchaser will determine to his satisfaction whether the Bidder is qualified to satisfactorily perform the contract. The determination will take into account the Bidder's financial, technical and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder pursuant to clause 13 as well as such other information as the purchaser deems necessary and appropriate.
- 24.4 An affirmative determination will be prerequisite for the opening of the financial bids. A negative determination will result in rejection of the Bidder's bid.
- 24.5 A bid determined as not substantially responsive will be rejected by the purchaser.
- 24.6 The Purchaser may waive any minor informality or non-conformity or irregularity in a bid which does not constitute a material deviation, provided such a waiver does not prejudice or affect the relative ranking of any bidder.
- 24.7 Purchaser and/or Authorized representative of purchaser can do inspection of manufacturing site/Assessment of manufacturing capacity.
- 24.8 In case of any discrepancy in documents submitted by the vendor purchase can ask to produce the original copy of the same
- 24.9 The Preliminary Evaluations of the bidders are kept available at APMSIDC website <http://apmsidc.ap.nic.in>

25. Deleted.

26. Evaluation and comparison of Bids.

- 26.1 The Purchaser will evaluate and compare bids previously determined to be substantially responsive, pursuant to clause 24 for each schedule separately.
- 26.2 The purchasers evaluation of a bid will take into account; in addition to the bid price (ex-factory/ex-warehouse/off-the-shelf price of the goods offered from within India, such price to include all costs as well as duties and taxes paid or payable on components and raw material incorporated or to be incorporated in the goods, on the finished goods and cost of incidental services required. The following costs to the extent specified:
- a. cost of inland transportation, insurance and other costs within India incidental to the delivery of goods to their final destination;
 - b. The comprehensive annual maintenance charges (inclusive of four Preventive Maintenance visits and all distress calls in a year and costs of all spares required during the repairs) for a period mentioned against equipment at section V- (Schedule of requirements) subsequent to free guarantee maintenance period mentioned against equipment at section V- (Schedule of requirements).
 - c. the availability in India (Preferably in Andhra Pradesh) of spare parts and after-sales services for the equipment offered in the bid. To this extent the bidders shall give:
 - An undertaking for the uninterrupted supply of adequate spares for at least a period of 7 years shall be furnished.
 - An Undertaking Availability/ establishment of after sales service facility at least in (1) region of Andhra Pradesh to ensure uninterrupted after sales service during warranty period shall be confirmed. The details of service facility available / proposed to be set up shall be furnished with their bid.

27. Deleted

28. Contacting the purchaser.

- 28.1 Subject to clause 23, no Bidder shall contact the purchaser on any matter relating to the bid, from the time of the bid opening to the time, the contract is awarded.
- 28.2 Any effort by a Bidder to influence the Purchaser in the purchaser's bid evaluation, bid comparison or contract award decisions may result in rejection of the Bidders bid.

F. Award of Contract

29. Post - Qualification

Not Applicable

30. Award Criteria

- 30.1 Subject to clause 32, the purchaser will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily.

31. Purchaser's right to vary quantities at Time of Award

- 31.1 The purchaser reserves the right, at the time of award of contract to increase or decrease to any extent of the quantity of goods and services specified in the schedule of requirements without any change in price or other terms and conditions.

32. Purchaser's right to accept any Bid and to reject any or all Bids.

- 32.1 The purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to award of contract, without there by incurring any liabilities to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Purchaser's action.

33. Notification of Award.

- 33.1 Prior to the expiry of the period of the bid validity, the purchaser will notify the successful Bidder in writing by registered letter or cable or telex, duly confirming that the bid has been accepted.
- 33.2 The notification of award will constitute the formation of the contract.
- 33.3 Upon the successful Bidder's furnishing of performance security, pursuant to clause 34, the purchaser will promptly notify each unsuccessful Bidder and will discharge their bid security, pursuant to clause 15.

34. Signing of contract

- 34.1. Within 15 days of receipt of the notification of award the successful Bidder shall sign the contract.

35. Performance security

- 35.1 Within 15 days of the receipt of notification of award from the purchaser, the successful Bidder shall furnish the performance security in accordance with the conditions of contract, in the performance security form provided in the Bidding documents or another form acceptable to the purchaser and signs the agreement.
- 35.2 Failure of the successful Bidder to comply with the requirement of clause 34 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the purchaser may make the award to the next lowest evaluated bidder or call for new bids.

36 Fraud and corruption

- 36.1** It is the **purchaser's** policy that requires that the bidders, suppliers and contractors and their subcontractor observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the **purchaser**;

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

- (i) **"corrupt practice"** is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
- (ii) **"fraudulent practice"** is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

(iii) “**collusive practice**” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;

(iv) “**coercive practice**” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

(v) “**obstructive practice**” is

(aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or

(bb) acts intended to materially impede the exercise of the purchaser’s inspection and audit rights provided for under sub-clause 36.2 (d) below.

36.2 The purchaser may, without prejudice to other terms of the bidding:

(a) will reject a proposal for award if it determines that the bidder considered for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for the contract in question;

(b) will cancel the contract if the purchaser determines at any time that the bidder, supplier and contractors and their sub-contractors engaged in corrupt, fraudulent, collusive, or coercive practices.

(c) will sanction a firm or individual, including declaring ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for, or in executing, a contract; and

(d) will have the right to inspect the accounts and records of the bidders, supplier, and contractors and their subcontractors and to have them audited by auditors appointed by the Purchaser.

SECTION - III: GENERAL CONDITIONS OF CONTRACT

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Section III: General Conditions Of Contract

1. Definitions

1.1 In this contract, the following terms shall be interpreted as indicated;

- (a) "The contract" means the agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all the attachments and appendices thereto and all documents incorporated by references therein.
- (b) "The Contract Price" means the price payable to the supplier under the contract for the full and proper performance of its contractual obligations.
- (c) "The Goods" means all the equipment and / or other materials which the supplier is required to supply to the purchaser under the contract.
- (d) "Services" means services ancillary to the supply of the goods, such as transportation, insurance and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other obligations of the supplier covered under the contract.
- (e) "An undependable Supplier/s' under contract means any Supplier who do not accept the purchase order or who delays the supply of required quantities beyond the permitted delays with liquidated damages
- (f) "The Purchaser or Corporation" means the APMSIDC, the purchasing agency
- (g) "The Supplier" means the individual or firm supplying the goods under this contract.
- (h) "The Government" means the Government of Andhra Pradesh or its authorized representatives
- (i) "The Project Site", where applicable means the place or places named in Schedule of Requirements
- (j) "The End-User" means the authorized user of the equipment/the Medical Superintendent/Head of the Department of the concerned specialty.
- (k) "Day" means calendar day
- (l) "Delivery period" means the period applicable up to completion of supply, Installation and testing of the equipment and the training of the staff on the equipment, by the supplier at the Project site and accepted by the Purchaser or its representative

2. Application

- 2.1. These General conditions shall apply to the extent that they are not superseded by provisions in other parts of the contract.

3. Country of Origin: Deleted.

4. Standards

- 4.1 The Goods supplied under this contract shall conform to the standards mentioned in the technical specifications and when no applicable standard is mentioned the authoritative standard appropriate to the goods country of origin shall be followed and such standard shall be the latest issued by the concerned institution.

5. Use of contract documents and Information

- 5.1 The supplier shall not without the purchaser's prior written consent, disclose the contract or any provision thereof or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the purchaser in connection therewith to any person other than a person employed by the supplier in performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 5.2 The supplier shall not, without the purchaser's prior written consent make use of any document or information enumerated in para 5.1 except for purposes of performing the contract.
- 5.3 Any document other than the contract itself enumerated in para 5.1 shall remain the property of the purchaser and shall be returned (in all copies) to the purchaser on completion of the supplier's performance under the contract if so required by the purchaser.

6. Patent Rights

- 6.1 The supplier shall indemnify the purchaser against all third party claims of infringement of patent, trademark for industrial design rights arising from use of the goods or any part thereof in India.

7. Performance Security

- 7.1 Within 15 days after the supplier's receipt of notification of award of the contract, the supplier shall furnish performance security to the purchaser for the amount specified in the special conditions of contract.
- 7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete its obligations under the contract
- 7.3 The performance security shall be denominated in Indian Rupees and shall be in one of the following forms:
- (a) A bank guarantee [in favour of Managing Director, APMSIDC, Guntur] issued by any scheduled commercial bank located in India acceptable to the purchaser and in the form provided in the Bidding documents or in any other form acceptable to the purchaser: or.
 - (b) A Banker's cheque or Demand Draft in favour of Managing Director, APMSIDC, Guntur.
- 7.4 Fifty percent (50%) of the performance security will be discharged by the Purchaser and returned to the supplier not later than 60 days following the date of completion of the supplier's performance obligations, including any warranty obligations. The balance 50% of the performance security will be retained towards performance security for the maintenance services to be provided for 4 years after the 3 years warranty period and this 50% will be discharged after completion of performance obligations under maintenance services after 7 years.
- 7.5 The supplier shall accordingly; either furnishes a fresh bank guarantee for the 50% value or an extension of bank guarantee for 50% of the value covering the 4 years maintenance period after 3 years warranty period. Only after receipt of the above, the 50% of the performance security will be discharged after the warranty period.

8. Inspections and Tests.

- 8.1 The purchaser or his representatives shall have the right to inspect and / or to test the Goods to confirm their conformity to the contract. The special conditions of contract and / or the Technical specifications shall specify what inspections and tests the purchaser requires and where they are to be conducted. The purchaser shall notify the supplier in writing of the identity of any representatives retained for these purposes.
- 8.2 The inspections and tests may be conducted in the premises of the supplier or its subcontractor(s) at point of delivery and/or at the goods final destination. Where conducted on the premises of the supplier or its subcontractor(s) all reasonable facilities and assistance including access to drawings and production data shall be furnished to the inspectors at no charge to the purchaser.
- 8.3 Should any inspected or tested goods fail to conform to the specifications the purchaser may reject them and the supplier shall either replace the rejected goods or make alternatives necessary to meet specifications, requirements free of cost to the purchaser.
- 8.4 The purchasers right to inspect test and where necessary reject the goods after the goods arrival at site and shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by the purchaser or its representative prior to the goods shipment from the country of origin.
- 8.5 Nothing in clause 8 shall in any way release the supplier from any warranty or other obligations under this contract.

9. Packing

- 9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration where appropriated the remoteness of the Goods final destination and the absence of heavy handling facilities at all points in transit.
- 9.2 The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements, as shall be provided for in the contract and subject to clause 18 and any subsequent instructions ordered by the purchaser.

10. Delivery and Documents

- 10.1 Delivery of the Goods shall be made by the supplier in accordance with the terms specified by the purchaser in the Notification of Award.

11. Insurance

The goods supplied under the contract shall be fully insured in Indian Rupees against the loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the special conditions of contract.

12. Transportation

- 12.1 The supplier is required to deliver the goods to the destinations specified in the contract and the cost thereof shall be included in the contract price.
- 12.2 The transportation of the Goods after the delivery at the final destination shall be the responsibility of the Purchaser.

13. Incidental services.

- 13.1 The supplier is required to provide the following services, including additional services, if any, specified in SCC:
- (a) Performance of the on-site assembly and start-up of the supplied Goods;
 - (b) Furnishing of tools required for assembly and maintenance of the supplied Goods;
 - (c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods;
 - (d) Performance of maintenance and repair of the supplied Goods, for a period of 7 years, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
 - (e) Training of the users and maintenance personnel, in operation, maintenance and repair of the supplied Goods.
- 13.2 Prices charged by the Supplier for incidental services, if not included in the contract price of the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

14. Spare Parts:

- 14.1 As specified in the special conditions of contract, the supplier may be required to provide the following materials and notifications pertaining to spare parts **manufacturer**:
- (a) Such of spare parts as the purchaser may select to purchase from the supplier providing that this selection shall not relieve the supplier of any warranty obligations under the contract and
 - (b) In the event of termination of production of the spare parts;
 - (i) advance notification to the purchaser of the pending terminating in sufficient time to permit the purchaser to procure needed requirements: and
 - (ii) Following such termination, furnishing at no cost to the purchaser, the blueprints, drawing and specifications of the spare parts, if and when requested.

15. Warranty

- 15.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract. The supplier further warrants that the goods supplied under this contract shall have no defect arising from design materials or workmanship (except insofar as the design or material is required by the purchasers

specifications) or from any act or omission the supplied goods in conditions obtaining in the country of final destination.

- 15.2 This warranty shall remain valid for as specified at section V schedule of requirements against each equipment or any portion thereof as the case may be have been delivered at the final destination indicated in the contract, unless specified otherwise in the special conditions of the contract. The warranty period starts from date of commissioning after installation by the firm.
- 15.3 The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.
- 15.4 Upon receipt of such notice, the supplier shall, with all reasonable speed, repair or replace the defective goods or parts thereof without cost to the purchaser other than, where applicable, the cost of inland delivery of the repaired or replaced goods or parts from the port of entry to the final destination.
- 15.5 If the supplier, having been notified, fails to remedy the defect (s) within a reasonable period, the purchaser may proceed to take such remedial action as may be necessary, at the suppliers risk and expenses and without prejudices to any other right which the purchaser may have against the supplier under the contract.
- 15.6** Site Visits: The successful tenderer shall visit each User Institution as part of preventive maintenance as per the frequency mentioned **under clause 5.1.3** (section-I of IFB) during the warranty period. The tenderer shall attend any number of break down/repair calls as and when informed by the Tender Inviting Authority/User Institution.
- 15.7 During every visit, a copy of the service report/break down call report, duly signed by the custodian of the equipment/head of the health care institution and stamped shall be forwarded by email/fax/post to the APMSIDC office within 10 days from the due date.
- 15.8 A warranty certificate (as per format in **Annexure III**) duly signed and with proper stamp of the institution concerned and also signed by the authorized signatory with the stamp of the successful tenderer shall be submitted to the Tender Inviting Authority for keeping it under safe custody along with the Installation Certificate. A copy of the original warranty papers has to be given to the institution head concerned.
- 15.9 The tenderer shall submit the activities to be carried out during the preventive maintenance visit as per the format in **Annexure IV**.

16. Payment

- 16.1 The method and conditions of payment to be made to supplier under the contract shall be specified in the special conditions
- 16.2 The Suppliers request (s) for payment shall be made to the purchaser in writing accompanied by an invoice describing as appropriate the goods delivered and the services performed and by shipping document, submitted pursuant to clause 10, and upon fulfillment of other obligations stipulated in the contract.

16.3 Payments shall be made promptly by the purchaser within sixty (60) days of submission of the invoices / claims by the supplier duly furnishing the certificate specified in the bid document from the competent authority.

16.4 Payment shall be made in Indian Rupees.

17. Prices

17.1 Prices charged by the supplier for goods delivered and services performed under the contract shall not with the exception of any price adjustments authorized by the special conditions of contract, vary from the prices quoted by the supplier in its bid.

18. Change Orders

18.1 The Purchaser may at any time by written orders given to the supplier pursuant to clause 31 , make changes within the general scope of the contract in any one or more of the following;

- (a) drawings, designs or specifications, where goods to be furnishing under the contract are to be specifically manufactured for the purchaser;
- (b) the method of shipping or packing;
- (c) the place of delivery; or
- (d) the services to be provided by the supplier;

18.2 If any such changes causes an increase or decrease in the cost of or the time required for the suppliers performance of any part of the work under the contract, whether changed or not changed by the order, an equitable adjustment shall be made in the contract price or delivery schedule or both and the contract shall accordingly be amended. Any claims by the supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the suppliers receipt of the purchasers change order.

19. Contract Amendments

19.1 Subject to clause 18, no variation in an modification of the terms of the contract shall be made except by written amendment signed by the parties.

20. Assignment

19.2 The supplier shall not assign in whole or in part, its obligations to perform under the contract, except with the purchasers prior written consent.

21. Sub-contracts

21.1 The supplier shall notify the purchaser in writing of all subcontracts awarded under the contract if not already specified in his bid. Such notification, in his original bid or later, shall not relieve the supplier from any liability or obligation under the contract.

22. Delays in the suppliers performance

22.1 Delivery of the goods and performance of the services shall be made by the supplier in accordance with the time schedule specified by the purchaser in its schedule of requirements.

- 22.2 Any unexcused delay by the supplier in the performance of its delivery obligations shall render the supplier liable for any or all of the following; i.e. forfeiture of its performance security, imposition of liquidation damages and or termination of the contract for default.
- 22.3 If at any time during the performance of the contract, the supplier or its subcontractor (s) should encounter performance of the services the supplier shall promptly notify the purchaser in writing of the fact of the delay its likely duration and its causes. As soon as practicable after receipt of the suppliers notice, the purchaser shall evaluate the situation and may at its discretion extend the suppliers time for performance, in which case the extension shall be ratified by the parties by amendment of the contract.

23. Liquidated Damages

- 23.1 Subject to clause 25, if the supplier fails to deliver any or all of the goods within the time period specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price as liquidated damages, an amount as specified in the SCC for the period of delay, until actual delivery or performance, up to a maximum deduction of **10 percent of the total contract value**. Once the maximum is reached, the purchaser may consider termination of the contract.

24. Termination for Default

- 24.1 The purchaser may, without prejudice to any other remedy for breach of contract by written notice of default sent to the supplier, terminate the contract in whole or part:
- (a) if the supplier fails to deliver any or all of the goods within the time periods specified in the contract or any extension thereof granted by the purchaser pursuant to clause 22; or
 - (b) if the supplier fails to perform any other obligations under the contract.
- 24.2 In the event the purchaser terminates the contract in whole or in part, 24.1 the purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar Goods. However, the supplier shall continue the performance of the contract to the extent not terminated.

25. Force Majeure

- 25.1 Notwithstanding the provisions of clauses 22,23,24, the supplier shall not be liable for forfeiture of its performance security liquidated damages or termination or default, if and to the extent that, its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure.
- 25.2 For purposes of this clause "Force Majeure" means an event beyond the control of the supplier and not involving the suppliers fault or negligence and not foreseeable. Such events may include but are not limited to, acts of the purchaser either in its sovereign or contractual capacity, wars or revolutions, floods, epidemics, quarantine restrictions and freight embargoes.
- 25.3 If a force majeure situation arises, the supplier shall promptly notify the purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the purchaser in writing the supplier shall continue to perform its obligations under the contract as far as is reasonably practical and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

26. Termination for Insolvency.

- 26.1 The purchaser may at any time terminate the contract by giving written notice to the supplier, if the supplier becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

27. Termination for convenience.

- 27.1 The purchaser may by written notice sent to the supplier terminate the contract, in whole or in part at any time for its convenience. The notice of termination shall specify that termination is for the purchasers convenience the extent to which performance of work under the contract is terminated and the date upon which such termination becomes effective.
- 27.2 The goods that are complete and ready for shipment within 30 days after the suppliers receipt for notice of termination shall be purchased by the purchaser and the contract terms and prices. For the remaining goods the purchaser may elect.
- (a) to have completed and delivered at the contract terms and prices; and / or
 - (b) to cancel the remainder and pay to the supplier and agreed amount for partially completed goods and for materials and parts previously procured by the supplier.

28. Resolution of Disputes

- 28.1 The purchaser and the supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the contract.
- 28.2 If after thirty (30) days from the commencement of such informal negotiations the purchaser and the supplier have been unable to resolve amicably contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in the special conditions of contract. These mechanisms may include but are not limited to conciliation, mediation by third party justification in an agreed national or international forum and / or international arbitration. The mechanism shall be specified in the special conditions of contract.

29. Governing Language

- 29.1 The contract shall be written in English language, as specified by the purchaser in the instructions to bidders. Subject to clause 30, English language version of the contract shall govern

30. Applicable law

- 30.1 The contract shall be interpreted in accordance with the laws of the union of India and the legal jurisdiction is Hyderabad

31. Notices

- 31.1 Any notices given by one party to the other pursuant to the contract shall be sent in writing and confirmed in writing to the address specified for that purpose in the special conditions of the contract. A notice shall be effective when delivered or on the notices effective date, whichever is later.

32. Taxes and duties

- 32.1 The rates quoted by the bidder shall be deemed to be inclusive of the sales and other taxes that the bidder will have to pay for the performance of this contract, at the prevailing rates notified by the Government. The purchaser will perform such duties in regard to the deduction of such taxes at source as per applicable law.

SECTION - IV: SPECIAL CONDITIONS OF CONTRACT

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Section IV: Special Conditions of the Contract

1. The following special conditions of contract shall supplement the general Conditions of contract. Whenever there is conflict, the provisions herein shall prevail over those of the general conditions of contract the corresponding clause number of the general conditions in parentheses.

2. Definitions (Clause I)

- (a) The Purchaser is : The Managing Director, APMSIDC, Mangalagiri, Guntur.
- (b) The Supplier is : -----

3. **Country of origin (Clause 3):** All goods and related services to be supplied under the contract / agreement shall have their origin in India or any other country with which India has not banned trade relations.

4. Performance security (Clause 7)

- 4.1 Performance security is 5% of the contract value and shall be valid up to 60 days after the date of completion of performance obligations including warrant obligations, as applicable.

- 4.2 Add clause 7.5 to the GCC as the following:

In the event of any contract amendment, the supplier shall within 7 days of receipt of such amendment furnish the amendment to the performance security rendering the same valid for the duration of the contract, as amended for further period of 60 days thereafter

5. Inspection and Tests (clause 8)

The following inspection procedures and tests are required by the Purchaser:

- 5.1 The Supplier shall get each equipment inspected by a competent authority in manufacturer's works and also provide a guarantee/warranty certificate that the instrument conforms to all specifications contained in the contract.
- 5.2 The *Purchaser* or its representative may inspect and/or test any or all the equipment to confirm their conformity to the Contract specifications, prior to dispatch from the manufacturer's premises. Such inspection and clearance will not prejudice the right of the consignee to inspect and test the equipment on receipt at destination.
- 5.3 However, on arrival of the equipments at destinations, the purchaser or its representative shall have the right to inspect and/or test any or all the equipments to confirm their conformity to the contract.
- 5.4 If the equipment or its performance is not as per specified conditions, deficiency or replace the equipment (s) to the satisfaction of the purchaser's representative.

6. Packing (Clause 9)

The Supplier will be required to mark separate packages for each consignee on three sides with proper paint/indelible ink, the following: i. Name of the contract, ii. Contract No., iii. Country of origin of Goods, iv. Supplier's Name and v. Packing of list reference number

7. Delivery and Documents (Clause 10)

- (i) Three copies of the Supplier invoice showing Goods description, quantity, unit price, total amount;
- (ii) Railway receipt/acknowledgement of receipt of goods from the Consignee
- (iii) Manufacture's/Supplier's Warranty and Factory Test certificate;
- (iv) Acceptance Certificate issued by the End-User
- (v) Inspection Certificate issued by the nominated inspection agency, as applicable

8. Insurance (Clause 11)

- i) **For delivery of goods at site, the insurance shall be obtained by the Supplier at his cost for an amount equal to 110% of the value of the goods from "warehouse to warehouse" on "All Risks" basis including war Risks and Strike clauses period in the name of consignee authorized by the purchaser i.e. M.D. APMSIDC. The supplier shall also provide insurance coverage against fire and theft in the name of consignee upto end of the warranty period.**
- ii) **To submit a copy of insurance document duly attested by the consignee to APMSIDC along with bills for making payment. Otherwise the bills may not be processed.**

9. Incidental Services (Clause 13)

No additional services are required to be provided over the services already covered under clause 13 of GCC.

10. Spare parts: (Clause 14)

Add as clause 14.2 to the GCC the following:

Supplier shall carry sufficient inventories to assure ex stock supply of consumables spares such as gaskets, plugs, washers, belts etc., other spare parts and components shall be promptly as possible but, in any case, within (3) days of placement of order.

11. Warranty (Clause 15)

- 11.1 In partial modification of the provisions, the warranty period shall be as specified at section V schedule of requirements against each equipment, or any portion thereof, as the case may be, have been delivered at site, installed, commissioned, successfully tested and accepted by the Purchaser or its authorized representative
- 11.2 Substitute Clause 15.4 of the GCC with the following:

Upon receipt of such notice, the Supplier shall within 3 days, repair or replace the defective goods or parts thereof, free of cost at the ultimate destination. The Supplier shall take over the replaced parts/goods at the time of their replacement.
- 11.3 If the supplier has not done repair/replacement within the time specified above the purchaser will assess the cost of having the repairs/replacements done and the supplier will pay this amount.
- 11.4 Overall an uptime guarantees of 95% shall be maintained out of total usage period of the equipment by the end users during the warranty period

11.5 All software updates, if any required, should be provided free of cost during Warranty period.

11.6 No conditional warranty like mishandling, manufacturing defects, etc. will be acceptable.

11.7 **Warranty as well as Comprehensive Maintenance contract** will be inclusive of all accessories and Turnkey work, and it will also cover the following wherever applicable:-

- Any kind of motor.
- Plastic & Glass Parts against any manufacturing defects.
- All kind of sensors.
- All kind of coils, probes and transducers.
- Printers and imagers including laser and thermal printers with all parts.
- UPS including the replacement of batteries.
- Air-conditioners, All kinds of painting, civil, HVAC and electrical work

12 Payment (Clause 16)

12.1 Payment for goods and services shall be made in Indian Rupees as follows:

- a) 60% of the contract value of the supply part after necessary deduction will be paid to the supplier on submission of copy of invoice with original Delivery Challan as proof of supply to destinations duly certified by the Head of the Institution and RTGS details
- b) 30% of payment will be paid on submission of original invoice with stock entries, delivery challan and Installation Certificates (Annexure 1), warranty certificate (Annexure III), copy of insurance document duly attested by the consignee to APMSIDC, calibration, quality assurance certificate test certificate if required as per technical specification after completion of all the performance obligations.
- c) The balance 10% will be paid after three months from the date of installation on submission of performance satisfactory report (Annexure-II), obtained from the Head of the institute or concerned authorities.
- d) In case any difficulty is experienced by the successful tenderer in obtaining three-month performance certificate from any of the User Institution after the installation of the equipment, the same shall be brought to the notice of the Tender Inviting Authority immediately in writing. In such event(s), if the Tender Inviting Authority is convinced, the reasons are beyond the control of the successful tenderer, the Tender Inviting Authority, in case of supply orders placed by it, shall release payments at its discretion. In such case the letter sent to the Tender Inviting Authority shall be submitted along with the invoices while claiming payment.

12.2 If there is a delay in installation of the equipment due to reasons not attributable to the supplier such as non readiness of site, 60% of the supply part of the contract value will be released against supply and a confirmation letter from the consignee / end user, on submission of original delivery challan & Invoice copy.

12.3 Cost of Comprehensive Maintenance Contract for each year will be paid, at the end of each year by the Purchaser's representatives/hospital authorities, upon submission of the service reports to the extent of the service delivered as per the contract terms.

13. Prices (Clause 17)

Prices payable to the Supplier as stated in the Contract shall not be subject to adjustment during performance of the Contract.

14 Sub-contracts (Clause 21)

Add at the end of sub-clause 21.1 of the GCC the following. "Sub-contract shall be only for bought-out items and sub-assemblies".

15 Liquidated Damages (Clause 23)

15.1 For delays

Substitute Clause 23.1 of the GCC by the following:

Subject to clause 25 of GCC, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to 0.5 percent of the delivered price of the delayed Goods or unperformed Services for each week of delay or part thereof until actual delivery or performance, up to a maximum deduction of **10% of the total Contract value**. Once the maximum deduction is reached, the Purchaser may consider termination of the Contract.

15.2 For Short fall in Equipment Maintenance services

Any major repair intimated by the *Purchaser or the end-user* shall be rectified by the Supplier from the date of intimation within a period of 3 calendar days and repair the equipment to the satisfaction of the Purchaser or the End User. Failing which the Purchaser has a right to levy a penalty on the Supplier a sum of Rs.10,000/- per day of delay, until the equipment is repaired and brought to the normal working condition to the satisfaction of the Purchaser.

16 Resolution of Disputes (Clause 28)

Add as Clauses 28.3 and 28.4 of the GCC the following:

28.3 The dispute resolution mechanism to be applied pursuant to clause 28 of the General Conditions shall be as follows:

- (a) In the case of dispute or difference arising between the Purchaser and a Domestic Supplier relating to any matter arising out of or connected with this agreement, such dispute or difference shall be referred to the award of two Arbitrators, one Arbitrator to be nominated by the Purchaser and the other to be nominated by the Supplier or in the case of the said Arbitrators not agreeing, then at the award of an Umpire to be appointed by the Arbitrators in writing before proceeding with the reference, and in case the Arbitrators cannot agree to the Umpire, he may be nominated by the Arbitration committee of the Indian Council of Arbitration, India. The award of the Arbitrators, and in the event of their not agreeing, of the Umpire appointed by them or by the Arbitration Council of India, India, shall be final and binding on the parties.
- (b) The Indian Arbitration Act 1996, the rules thereunder and any statutory modification or re-enactments thereof, shall apply to the arbitration proceedings.

28.4 The venue of arbitration shall be the place from where the Contract is issued.

17 Notices (Clause 31)

For the purpose of all notices, the following shall be the address of the purchaser and supplier.

Purchaser: The Managing Director, APMSIDC, 2nd Floor, Plot No:09, survey number: 49, IT Park, Mangalagiri, Guntur District- 522503

Supplier: (To be filled in at the time of Contract Signature)

18 Comprehensive Maintenance Contract (CMC)

- a) The Comprehensive Maintenance Contract includes 4 visits in a year preventive maintenance visits and all the distress calls during the year and also include the probable cost of spares required towards the repairs carried out to bring a not working equipment to its normal working condition, during the year.
- b) The supplier shall under take at least one half-yearly preventive maintenance visit and attend to all the break down calls during the year. The payment for the maintenance services will be made at the end of each half-year, upon submission of necessary service reports signed by the end-users.
- c) The Comprehensive Maintenance Contract agreement will be done by APMSIDC/ Hospital authority/ Any Authorized service provider nominated by Govt AP , as per rates given by the vendor in the tender.

19 Actions Against the Misconduct of the Supplier

- 19.1 A Supplier found being supplied similar items with similar tender conditions to any other agency in the country during the validity of the contract with the APMSIDC, at a rate lower than the rate at which they supplied under this tender, the difference amount is liable to be recovered apart from blacklisting the firm for a minimum period of 3 years. The Supplier should furnish undertaking (Annexure-XIII) that they will remit the differential cost, if they quote lower rate than the rate quoted to the APMSIDC to any other agency or department or state, during the period of contract.
- 19.2 Any substandard supplies without meeting the quality specifications made under the contract shall also entail blacklisting of the firm for a minimum period of three years for that particular product.
- 19.3 If the bidder fails to demonstrate on asked to do so, of the products quoted with their bid, without any valid or convincing reason to the satisfaction of the Purchaser, the bids for other items offered against the bid notice will not be considered and he may be debarred for a certain period as decided by the Purchaser.

20 Progress of Supply

Supplier shall intimate progress of supply, in writing, to the Purchaser as under:

- Qty offered for inspection and date;
- Qty. accepted/rejected by inspecting agency and date;
- Qty. dispatched/delivered to consignees and date;

- Qty. where incidental services have been satisfactorily completed with date;
- Quantity where rectification/repair/replacement effected/completed,
on receipt of any communication from consignee/Purchaser with date;
- Date of completion of entire Contract including incidental services, if any; and
- Date of receipt of entire payments under the Contract.

SECTION V

SCHEDULE OF REQUIREMENTS AND TECHNICAL SPECIFICATIONS

| Sl. No | Name of the item | Group wise | Warranty (in Years) | CMC (in Years) | EMD (in Rs.) | Average Annual turnover of the Authorized Bidder in the last three years i.e. 2021-22, 2022-23 and 2023-24 |
|--------|---|------------|---------------------|----------------|--------------|--|
| 1. | Procurement and supply of equipment, and other items for 50 bedded AYUSH Hospital KKD | Group A | 1 | - | 90,000 | 50,00,000 |
| | | Group B | 1 | - | 90,000 | 50,00,000 |
| | | Group C | 3 | 4 | 1,20,000 | 1,00,00,000 |
| | | Group D | 1 | - | 30,000 | 50,00,000 |
| | | Group E | 1 | - | 30,000 | 50,00,000 |
| | | Group F | 1 | - | 30,000 | 50,00,000 |
| | | Group G | 1 | - | 45,000 | 50,00,000 |
| | | Group H | 1 | - | 60,000 | 50,00,000 |

Processing fee: The participating bidders will have to pay tender processing fee (non-refundable) of **Rs. 11,800/-** in the form of online only.

Note: Bidders who are having any pending court cases / legal disputes against the APMSIDC before any court of law / authority, are not eligible to participate in the tender. In this regard If any ambiguity arises, the decision of tender inviting authority (APMSIDC) is final

All tender unit price will be rounded off to next nearest whole number (if price is Rs. 100.40 it will be 100 Rs. and 100.75 then it will be Rs. 101)

1. To allow the authorized distributors duly obtaining an agreement/ MOU from the Manufacturer for binding on Post Supply Services i.e. Warranty, CMC, AMC etc., and on agreement executed by the authorized distributor with the Corporation. Further an undertaking from Manufacturer to take responsibility in case of authorized distributor's failure in performing the Contractual Obligations also may be obtained. Proforma will be provided.

2. EMD shall be furnished in the form of Demand Draft/BG/Online drawn in favour of Managing Director, APMSIDC, Guntur.
3. All the bidders are requested to quote the total value of each group as a single unit (Total items X Total Quantity = Total Value)

Note:

1. All the bidders noted that each grouping items should be quoted individual prices in financial bid of attached document compulsory.
2. To allow the authorized distributors duly obtaining an agreement/ MOU from the Manufacturer for binding on Post Supply Services i.e. Warranty, CMC, AMC etc., and on agreement executed by the authorized distributor with the Corporation. Further an undertaking from Manufacturer to take responsibility in case of authorized distributor's failure in performing the Contractual Obligations also may be obtained. Proforma will be provided.
3. EMD shall be furnished in the form of Demand Draft/BG/Online drawn in favour of Managing Director, APMSIDC, Guntur.
4. For Group A, B, D, E, F, G and H items warranty 1 year, for Group C items warranty 3 years and 4 years CMC (all related lab items reagents prices to be attached as financial bid of e-procurement platform)

Technical Specifications

General Information

1. Bidders are requested to offer the equipment as per the specifications attached.
2. For each item of equipment the bidder should include all the cost associated with fixing, cables, connectors, accessories and ancillary items necessary for the satisfactory operation of that item of equipment. Bidders should make the provisions of starter packs for consumables for demonstration and three months of operation period for the supplied equipment.
3. Spare parts list, listing spare likely to be required for (7) years operations shall be attached with the Bid
4. (i) Bidders are requested to provide, referenced by given equipment code and item name, with their tender offer, the following information for all the items of equipment offered.
 - Name of the Manufacturer
 - Brand Name & Model Number
 - Country of Origin(ii) Catalogue, Pamphlet, descriptive literature, spare parts list and technical specifications for each unit of item must be forwarded with the offer.
5. Operating Environment:

Electrical Supply: The Equipment supplied shall be suitable in all respect for use on the local electricity supply of 200- 270 Volts, 50 Cycles. A suitable stabilizer/CVT to be offered as an optional accessory in case of specific Voltage requirement for the supplied Equipment. Resettable over current breaker shall be fitted for protection wherever applicable.

Humidity: The unit shall be capable of operating continuously in ambient temperature of 30°C and relative humidity of around 80%.
7. After Sales Service:

Bidders are requested to confirm in writing in their bid offer the after sales service they would provide, after the expiry of three-year warranty period, for four more years including an estimated cost an annual servicing contract. The maintenance capability of the bidders currently existing in Hyderabad and Andhra Pradesh should also be clearly stated.
8. All items should be of high quality, durable, and suitable for use in a Hospital. The technical specification and standards of each item delivered shall be that currently in use at the time of delivery.
 - a) Electrical safety conforms to standards for electrical safety IEC-60601 / IS-13450.
 - b) Radiation safety: Safety aspects of Radiation dosage leakage should be spelt out and all the X-ray related products should comply with AERB Guidelines for radiation leakage.

- 10 a) The Manufacturer, must have necessary quality certifications for both processes and products such as ISO 9001 (Quality Management System for Organization) and ISO 13485 (Quality Management System for Medical Devices).
- b) Full Quality Assurance System Approval Certificate Management System Certification for Medical Devices and their equivalent International Standards certificates as BIS/Notified body CE/USFDA etc.
11. If the bidder fails to demonstrate any of the products quoted, the bid for that product would be considered as withdrawn and suitable action will be taken as per the Clause 15 of ITB. i.e., forfeiture of the Bid security and also the bidder may be debarred for a certain period as decided by the Managing Director.

Note:

- 1. The bidder should submit the details of spares which are covered or not covered under warranty.**
- 2. The bidder should also submit the detailed price list for all spares.**

List of items

Group A items : General Equipment

| S.No | Description | Equipment name | Qty |
|------|-------------|---|-----|
| 1 | Equipment | Spirometry | 1 |
| 2 | Equipment | Auto Refractometer with Keratometer | 1 |
| 3 | Equipment | Portable ventilator | 2 |
| 4 | Equipment | Portable X-ray | 1 |
| 5 | Equipment | Height Measuring Scale (Wall mounted) | 17 |
| 6 | Equipment | X Ray View Box | 17 |
| 7 | Equipment | Foetal toco cardiograph or foetal doppler | 1 |
| 8 | Equipment | Screen Separators | 20 |
| 9 | Equipment | BP Apparatus Digital | 21 |
| 10 | Equipment | Snellen Chart (LCD) | 1 |
| 11 | Equipment | Portable monitor | 2 |
| 12 | Equipment | Weighing Machine Digital | 17 |
| 13 | Equipment | Stethoscope | 21 |
| 14 | Equipment | BP Apparatus with Stand | 4 |
| 15 | Equipment | Bed Pans | 50 |
| 16 | Equipment | Laryngoscope with blades with Ambu bag | 2 |
| 17 | Equipment | Fire Extinguisher | 3 |

Group B items: Furniture Items

| | | | |
|----|-----------|--|----|
| 1 | Furniture | Doctor Table with Lockers | 17 |
| 2 | Furniture | Medicine Storage Racks | 6 |
| 3 | Furniture | Iron Almirah (4 Shelves) | 11 |
| 4 | Furniture | Doctor Revolving Chair | 24 |
| 5 | Furniture | Patient Chairs | 37 |
| 6 | Furniture | Equipment Lockers (15 Cabinets) | 4 |
| 7 | Furniture | Staff Room Lockers (15 Cabinets) | 4 |
| 8 | Furniture | Chair | 35 |
| 9 | Furniture | Glass Almirah (4 Shelves) | 5 |
| 10 | Furniture | Single Cot with Mattress, Pillow & Blanket | 8 |
| 11 | Furniture | Patient Waiting Chairs (3 Seater) | 13 |
| 12 | Furniture | Laboratory Casework (3.8 M x 5.8 M) | 1 |
| 13 | Furniture | Laboratory Casework (9.1 M x 5.8 M) | 1 |
| 14 | Furniture | Examination Stool Revolving | 16 |
| 15 | Furniture | Records Cabinet (Glass Doors - 4 | 5 |

| | | | |
|----|----------------|---|----|
| | | Shelves) | |
| 16 | Furniture | Patient Waiting Chairs (Cussion 3 Seater) | 6 |
| 17 | Furniture | Superintendent Table | 1 |
| 18 | Furniture | Visitors Chairs | 10 |
| 19 | Furniture | Nursing Station with Lockers | 3 |
| 20 | Furniture | Dustbins Large Set (Colour Coded) | 14 |
| 21 | Furniture | CMO Table | 2 |
| 22 | Furniture | Conference Table | 1 |
| 23 | Furniture | Doctor Table | 4 |
| 24 | Furniture | Office Chairs | 5 |
| 25 | Furniture | CMO Chair (Revolving) | 2 |
| 26 | Furniture | Office Tables | 2 |
| 27 | Furniture | Superintendent Chair (Revolving) | 1 |
| 28 | Furniture | Medicine Plastic Trays | 60 |
| 29 | Furniture | Visitors Sofa Set | 1 |
| 30 | Furniture | Tables | 11 |
| 31 | Furniture | Doctor Chair | 2 |
| 32 | Furniture | Cooking Table | 2 |
| 33 | Equipment | Bedside Attender Stools | 48 |
| 34 | Equipment | Examination Table with Lockers | 16 |
| 35 | Equipment | Oxygen Cylinder with Trolley | 2 |
| 36 | Equipment | Emergency Medicine trolley | 2 |
| 37 | Surgical Items | Instrumental trolley | 2 |
| 38 | Equipment | Emergency trolley trays | 2 |

Group C Items: Lab Equipment

| | | | |
|---|---------------|--|---|
| 1 | Lab Equipment | Automated blood culture system | 1 |
| 2 | Lab Equipment | Semi-automated biochemistry analyser | 1 |
| 3 | Lab Equipment | Chemilumin escence or Enzyme linked immune-sorbent assay | 1 |
| 4 | Lab Equipment | Electrolyte analyser | 1 |
| 5 | Lab Equipment | HbA1C analyser or Card based | 1 |
| 6 | Lab Equipment | Urine Analyser | 1 |
| 7 | Lab Equipment | Fully automated biochemistry analyser | 1 |

Group D items: General & Other Items

| | | | |
|---|--------|-----------------------------|-----|
| 1 | Others | Landline Phones | 45 |
| 2 | Others | Cleaning Material Set | 4 |
| 3 | Others | IEC Posters | 65 |
| 4 | Others | Sanitizer Stand with Bottle | 25 |
| 5 | Others | Blanckets | 102 |
| 6 | Others | Floor Mats | 85 |
| 7 | Others | Towels Large | 44 |
| 8 | Others | Bucket & Mug Set | 57 |

| | | | |
|----|-----------|--|-----|
| 9 | Others | Table Cloth | 21 |
| 10 | General | Hospital Elevator (2 Floor) | 1 |
| 11 | General | RO Water Plant 50 Litrs | 5 |
| 12 | General | Hospital Laundry Washing Machine | 2 |
| 13 | General | Meeting Hall Plastic Chairs (Neelkamal) | 100 |
| 14 | General | Door Locks (Godrej) | 150 |
| 15 | General | Hot Water Dispenser | 11 |
| 16 | General | Hot Water Geyser 15 Ltrs Capacity | 10 |
| 17 | Equipment | Stainless Steel Food Trolley (20 Members Capacity) | 2 |
| 18 | Equipment | Venesection tray & All Needles & Forceps (Set) | 4 |
| 19 | Equipment | Stainless Steel Food Trolley (10 Members Capacity) | 2 |
| 20 | Equipment | Stainless Steel Vessels Induction Base (All Sizes Set) | 4 |
| 21 | General | Stainless Steel Plates and Glasses Set | 60 |
| 22 | Equipment | Electric Rice Cooker 5 Ltrs | 4 |
| 23 | Equipment | Hot Water Geyser 25 Ltrs Capacity | 4 |

Group E Items: Panchakarma Items

| | | | |
|----|-------------------|-----------------------------|---|
| 1 | Panchakarma Items | Droni with Stand | 4 |
| 2 | Panchakarma Items | Electrical Steam Generators | 4 |
| 3 | Panchakarma Items | Sarwanga Sweda Yantra | 2 |
| 4 | Panchakarma Items | Dhara Stand | 4 |
| 5 | Panchakarma Items | Bhaspa Sweda Yantra | 2 |
| 6 | Panchakarma Items | Sthanik swedana yantra | 1 |
| 7 | Panchakarma Items | Nasya Chair | 1 |
| 8 | Panchakarma Items | Cooking Ware | 4 |
| 9 | Panchakarma Items | Dhara paatra | 4 |
| 10 | Panchakarma Items | Vamana Peeta | 1 |

Group F items; Physiotherapy Equipment

| | | | |
|---|-------------------------|---|---|
| 1 | Physiotherapy Equipment | Treadmill | 1 |
| 2 | Physiotherapy Equipment | LASER Therapy Equipment | 1 |
| 3 | Physiotherapy Equipment | Traction unit along with lumbar and cervical belts | 1 |
| 4 | Physiotherapy Equipment | Transcutaneous electrical nerve stimulation along with wires and electrodes | 1 |
| 5 | Physiotherapy Equipment | Ultrasound therapy along with probes | 1 |
| 6 | Physiotherapy Equipment | Electrical stimulation along with wires and electrodes | 1 |
| 7 | Physiotherapy Equipment | Infra-red radiation therapy | 1 |
| 8 | Physiotherapy Equipment | Interferential therapy along with the wires and electrodes | 1 |

Group G Items: Surgical Items

| | | | |
|---|----------------|--|---|
| 1 | Surgical Items | OT Table | 1 |
| 2 | Surgical Items | OT Light | 2 |
| 3 | Surgical Items | Instruments for labour and episiotomy (scissors, forceps, needle holders and the like) | 2 |
| 4 | Surgical Items | Fumigator (Dhoopan Yantra) | 2 |
| 5 | Surgical Items | Lithotomy Table | 1 |
| 6 | Surgical Items | Kshara Sutra Cabinet | 1 |
| 7 | Surgical Items | Shadowless lamp | 1 |

Group H items: Electrical Items

| | | | |
|---|--------|-------------------------|-------|
| 1 | Others | Generator | 1+4 |
| 2 | Others | CC Cameras with DVR Box | 30+35 |

Note: All the bidders are requested to quote the total value of the Group A items as a single unit (Total items X Total Quantity = Total Value)

Specifications

Group A Specifications:

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| 1. Spirometry |
| Technical Specification |
| <ul style="list-style-type: none"> • Volume Measurement: Spirometers should accurately measure volumes of at least 8 liters with an accuracy of $\pm 3\%$ or ± 50 ml. |
| <ul style="list-style-type: none"> • Flow Measurement: Flow measurement range should be at least ± 14 liters per second, with a sensitivity of 200 ml/s. |
| <ul style="list-style-type: none"> • Accuracy: Flow accuracy should be within $\pm 5\%$ or 200 ml, and volume accuracy should be within $\pm 3\%$ or 50 ml. |
| <ul style="list-style-type: none"> • Resistance: Total resistance to airflow at 14.0 L/s-1 should be $< 1.5 \text{ cmH}_2\text{O} \cdot \text{L}^{-1} \cdot \text{s}^{-1}$. |
| <ul style="list-style-type: none"> • Time: Spirometers must be capable of accumulating volume for at least 15 seconds. |
| <ul style="list-style-type: none"> • Calibration: Spirometry systems must include a calibration verification option using room air at ambient conditions. |
| <ul style="list-style-type: none"> • Temperature Correction: Ambient temperature must be recorded with an accuracy of $\pm 1^\circ\text{C}$, and BTPS corrections should be accurate, especially for volume spirometers, where errors can occur if ambient temperature is used instead of internal temperature. |
| <ul style="list-style-type: none"> • Software: Spirometry software should be able to generate reports of calibrations and identify failed calibration verifications. |
| <ul style="list-style-type: none"> • Acceptable Maneuver: According to ATS/ERS guidelines, an acceptable maneuver should have an explosive start, maximal effort, and no hesitations or cessation of airflow. |
| <ul style="list-style-type: none"> • Quality Control: The spirometer should be able to perform quality control checks and alerts for calibration verification failures. |
| <ul style="list-style-type: none"> • Other Considerations: Spirometers should be easy to operate, portable, and have bio calibration verification features. |

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| 2. Auto Refractometer with Keratometer |
| Technical Specification |
| 1 Measurable Range AutoRefractometer:- Sphere: -25.00D to + 20.00D or more (VD=12mm) (.1/0.12/0.25D increments) Cylinder: -0D to +/- 10D (.1/0.12/0.25D increments) Axis: 0Deg. To 180 Deg. (1 Deg./5 Deg. Increments) |

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| 2 Measureable Range AutoKeratometer:- Radius Curvature: 5.00mm to 10.00 mm (minimum) (0.01 mm increments) Refractive Power: 30 to 67.50D (n=1.3375) (0.01/0.12/0.25D increments) Astigmatism: 0 D to +/- 12D (0.01/0.12/0.25D increments) Axis: 0 Deg. To 180 Deg. (1 Deg./5 Deg. Increments) |
| 3 Ordinary Measurement area:- Dia 3.0mm (R=7.7mm) |
| 4 Peripheral measurement area:- Dia 6.0mm (R=7.7mm) |
| 5 Sagital radius measurement:- 25 Deg. Each from the center (Superior side, Inferior side, Temporal side, Nasal side) |
| 6 Measurable minimum pupil diameter :- Diameter 2mm |
| 7 PD measureable range:- 30 to 85 mm (1mm increments) (Near point PD: 28 to 80mm at WD-40cm) |
| 8 Corneal Size Measurement Range :- 08 to 14mm (0.1mm increments) |
| 9 Pupil Size Measurement Range:- 1 to 10 mm (0.1 mm increments) |
| 10 Auto tracking & Auto Shooting :- Y direction, Auto shooting |
| 11 Chart :- Scenery Chart |
| 12 Display :- 5.7- inch color LCD |
| 13 Printer :- Built-in-thermal type line printer (Easy loading and auto cutter) |
| 14 Interface:- RS-232C (In/Out) USB Eye care card system/Card is optional. |
| 15 Power Supply :- AC 100-240V \pm 10% , 50/60Hz |
| 16 Power Consumption :- 100 VA |
| 17 Dimension & Weight:- 260 (W) x 481 (D) x 455 (HH) mm/20kg |
| 18 Standard accessories :- Spare Printer paper, Power Cord, Dust Cover, Chinrest Paper, Fixing Pins, Model eye |
| 19 Certifications :- USFDA/EUCE notified body |
| 20 Warranty of equipment inclusive of concomitant devices/accessories including PC/laptop and UPS is 3 years. |
| 21 Manufacturer should be ISO 13485 certified. |

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| 3.Portable Ventilator |
| <ul style="list-style-type: none"> • Basic machine should be light weight, compact, suitable for adult and pediatric ventilation. |

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| <ul style="list-style-type: none"> • The system should be able to monitor following parameters. Peak pressure, frequency, I/E ratio, Inspired Tv, Expired Tv, Airway Pressure Gauge Inspiratory flow, Expiratory flow, Minute volume, Fi O2, Battery status |
| <ul style="list-style-type: none"> • Ventilator should operate from AC and from internal battery as well. The internal battery should take over the ventilator at least up to 8 hrs. During power failure. |
| <ul style="list-style-type: none"> • It should have a combination mode of pressure and volume to guarantee a minimum tidal volume while ensuring the Pressure Ventilation within safe limits. |
| <ul style="list-style-type: none"> • It should also have inverse ratio ventilation is pressure control or assist pressure control ventilation. |
| <ul style="list-style-type: none"> • Ventilator should also have inbuilt Fi O2 monitor. |
| <ul style="list-style-type: none"> • Should have reusable Flow Sensor. |
| <ul style="list-style-type: none"> • The system should be quoted with reusable patient circuit. |
| <ul style="list-style-type: none"> • The Unit should have Alarms for following:- Mains Failure, Battery depleted, High/Low Pressure. Leaks, High/Low Exp Volume, High/Low Fi O2. Sensor Pressure, High Temperature and proximal Pressure. |

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| 4.Portable X-ray |
| <ul style="list-style-type: none"> • Compact and Lightweight: Portable X-ray machines are designed for easy mobility and are typically smaller and lighter than stationary X-ray units. |
| <ul style="list-style-type: none"> • Wheels for Transport: They often have wheels to allow for smooth movement and easy transportation to different patient locations. |
| <ul style="list-style-type: none"> • High-Quality Image Capture: Portable X-ray systems utilize digital detectors that provide fast and high-quality image capture. |
| <ul style="list-style-type: none"> • Power Output (kW): This indicates the maximum amount of X-ray energy the unit can produce. Examples include 1.6kW, 4.2kW, or 80kW. |
| <ul style="list-style-type: none"> • mA Range: The mA range specifies the current flow during X-ray exposure. Examples include 10mA to 32mA or 300mA or more. |
| <ul style="list-style-type: none"> • kV Range: The kV (kilovolts) range determines the voltage applied to the X-ray tube, affecting the penetrating power of the X-rays. Examples include 40kV-90kV or 40-125kV. |
| <ul style="list-style-type: none"> • Exposure Time: This is the duration of the X-ray exposure. Examples include 10ms-1400ms or 0.01s-5.0s. |
| <ul style="list-style-type: none"> • Focal Spot: The focal spot is the area on the anode where X-rays are generated. Smaller focal spots generally lead to sharper images. Examples include 0.6mm or 1.8mm. |
| <ul style="list-style-type: none"> • Image Resolution: This refers to the number of pixels in the image, affecting image detail. Examples include 2816 x 2304 pixels or 3072 x 3072 pixels. |
| <ul style="list-style-type: none"> • Pixel Pitch: Pixel pitch is the distance between the center of each pixel, and a smaller pitch size leads to finer detail. |
| <ul style="list-style-type: none"> • Image Size: The size of the image capture area, often measured in millimeters or |

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| inches. Examples include 17 x 17 inches or 430 x 430 mm. |
| <ul style="list-style-type: none"> • Detector Size: The size of the flat panel detector, often expressed in millimeters. Examples include 400 x 400 mm. |
| <ul style="list-style-type: none"> • ADC: Analog-to-digital converter, which converts the analog signal from the detector into a digital image. 16-bit ADC is a common specification. |

5.Height Measuring Scale



Measuring

- range: 20 – 205 cm.
- Graduation: 1 mm.
- Packing size: 25.75 x 14.25 x 4.75 inches. Gross
- Weight: 2.65kg.

6.X-ray view box



- **Body: Powder Coated MS Cabinet with Aluminum Frame**
- **View: Single, Double, Triple and Four View Available Sheet:**
- **Acrylic Sheet**
- **Power: 12 V, 50-60Hz**
- **Bulb: High Glossy Led Bulbs**
- **Parts: Heavy Duty Switch & Socket Used Safety:**
- **Shock Proof Mechanism**
- **Holding: Plastic Clips for X-ray film Holding**
- **Handling: Light Weight & Portable**

7. Foetal toco cardiograph or foetal doppler

Foetal Toco Cardiograph (CTG):

- **Function:** Continuous monitoring of fetal heart rate (FHR) and uterine contractions (UCs).
- **Fetal Heart Rate (FHR) Range:** Typically 30-240 bpm.
- **Accuracy:** +/- 2 bpm.
- **Uterine Contraction Measurement:** Measures the pressure or movement of uterine contractions.
- **Display:** Often includes a display of the FHR trace, UC trace, and alarms for out-of-range FHR or UC readings.
- **Printing:** Many CTGs have integrated printers to record the traces.
- **Twin Monitoring:** Some CTGs can monitor two fetuses (FHR1 and FHR2) simultaneously.

Foetal Doppler:

- **Function:** Primarily used to detect and measure fetal heart rate.
- **Fetal Heart Rate (FHR) Range:** Typically 50-240 bpm.
- **Accuracy:** +/- 2 bpm.
- **Uterine Contraction Measurement:** Not designed to measure uterine contractions.

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| <ul style="list-style-type: none"> • Display: Often includes a display of the FHR in bpm, with a heart icon flashing with each heartbeat. |
| <ul style="list-style-type: none"> • Printing: Typically does not have a printing function. |
| <ul style="list-style-type: none"> • Twin Monitoring: Some Dopplers may have a twin monitoring function, but it's not as common as in CTGs. |

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| 8. Screen Separators |
| Vibratory Screen Separators: |
| <ul style="list-style-type: none"> • Material Handling: Suitable for powders, granules, and other dry materials. |
| <ul style="list-style-type: none"> • Screen Size: Typically 18" to 60" in diameter. |
| <ul style="list-style-type: none"> • Screen Angle: Adjustable, usually between 0 and 15 degrees. |
| <ul style="list-style-type: none"> • Material: Often made of stainless steel or mild steel. |
| <ul style="list-style-type: none"> • Vibration: Vibratory motors create movement to separate particles. |
| <ul style="list-style-type: none"> • Capacity: Varies depending on the model and material being separated, with some models handling up to 3300 kg/hour. |
| <ul style="list-style-type: none"> • Power: Ranges from 0.25 to 3 kW. |
| Static Screen Separators: |
| <ul style="list-style-type: none"> • Material Handling: Suitable for coarse materials, liquids, and slurries. |
| <ul style="list-style-type: none"> • Screen Size: Can range from 35 (widthlength) meters in diameter. |
| <ul style="list-style-type: none"> • Screen Angle: Can be horizontal or inclined, with adjustable angles up to 45 degrees. |
| <ul style="list-style-type: none"> • Material: Typically made of mild steel. |
| <ul style="list-style-type: none"> • Mesh Size: |
| The size of the mesh openings determines the level of filtration and separation. |
| <ul style="list-style-type: none"> • Layers: |
| Some vibrating screen separators can have multiple layers for more precise separation. |
| <ul style="list-style-type: none"> • Applications: |
| Used in various industries, including mining, agriculture, food processing, and manufacturing. |

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| 9. BP Apparatus Manual Aneroid with one adult and pediatric cuff |
| Corrosion resistant shock proof body |
| Dial with contrast colors for easy reading |
| Range up to 300 mm of Hg |
| Should be supplied with Adult and pediatric cuffs |
| BP cuff: |
| o Small adult |
| o Adult |
| o Pediatric cuff |
| o Thigh |
| o Velcro bag for the bladder |
| o Chrome plated metal/ stainless steel pressure control valve |
| o Bulb, tubing's and bladder made of rubber |
| 1 years warranty |

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| 10. Snellen Chart (LCD) |
| <ul style="list-style-type: none"> • Size: 22 inches wide by 11 inches tall. • Distance: The chart should be viewed from a distance of 20 feet (6 meters). • Letter Size: The letters decrease in size from the top row to the bottom row. • Letter Type: The letters used are capital letters, with each line containing five letters. • Line Numbers: The chart usually has 11 rows of letters. • Contrast: The letters are printed with high contrast against a white background. • Material: Typically made of a durable, non-reflective material like PVC. • Testing: The patient covers one eye while reading the smallest line they can see. • Normal Vision: 20/20 vision is considered normal, meaning the person can read the same line of letters at 20 feet as a person with normal vision. • Other Uses: Snellen charts can be used for color vision testing. |

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| 11. Portable monitor |
| <p>Display Size: Typically ranges from around 10 inches to 17.3 inches. Common sizes include 13.3", 14", 15.6", and 17.3". The ideal size depends on your portability needs and primary use case.</p> |
| <p>Panel Type:</p> <p>IPS (In-Plane Switching): Offers excellent color accuracy, wide viewing angles, and good brightness. Generally preferred for tasks requiring accurate color representation and collaborative viewing.</p> <p>TN (Twisted Nematic): Generally has faster response times (better for gaming) but often suffers from narrower viewing angles and less accurate colors compared to IPS.</p> <p>VA (Vertical Alignment): Provides good contrast ratios and decent viewing angles, often a middle ground between IPS and TN.</p> |
| <p>Resolution : Common resolutions include:</p> <p>HD (1366 x 768): Lower resolution, less sharp image quality, typically found on smaller or more budget-friendly models.</p> <p>Full HD (FHD) (1920 x 1080): The most common resolution, offering a good balance of sharpness and performance.</p> <p>QHD (2560 x 1440): Higher resolution, providing a sharper and more detailed image, often found on larger or higher-end portable monitors.</p> <p>4K UHD (3840 x 2160): Highest resolution, offering the most detail, but can be more power-intensive and may not be necessary for typical portable use cases.</p> |

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| 12. Weighing Machine Digital |
| <ul style="list-style-type: none"> • Accuracy :- 50g • Weighing Capacity :- 500kg • Platform Size :- 750mm x 750mm |

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| • Battery Voltage :- 6V |
| • Display Type :- LED / LCD |
| • Material :- Iron Metal |
| • Platform :- MS with cheq plate |
| • Warranty :- 1Year |

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| 13. Sthetoscope |
| • Light weight aluminium anodized chest piece |
| • High acoustic sensitivity |
| • Sensitive floating diaphragm with brass chrome plated screw ring |
| • Special "Y" tubing with extra gloss finish |
| • 5mm seamless brass pipe chrome plated head frame comfortably angled |
| • Soft sealing ear knobs |

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| 14 . BP Apparatus With Stand |
| • Included Components: - Cuff, Tube, Bulb |
| • Power Source: - Corded Electric |
| • Use For: - Arm |
| • Display Type: - Analog |
| • Age Range: - Adult |

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| 15. BedPans |
| • Component: Bedpan. |
| • Material: - Polypropylene, autoclavable. |
| • Technical specifications :- Size: L450 x W280 x H10mm, volume: 2.5 litres Colour: white Autoclavable at 130°C, 20mm maximum. |
| • Unit presentation : - Individually packed in protective plastic bag. |

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| 16. Laryngoscope with blades with Ambu bag |
| Laryngoscope with Blades: |
| Blades: Laryngoscope blades come in various sizes and shapes, including straight (Miller) and curved (Macintosh) blades. The choice of blade depends on the patient's age, size, and anatomical features. |
| Handle: The handle houses the battery and light source, providing illumination for the airway. |
| Light Source: Typically an LED or fiber optic light is used to illuminate the larynx. |

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| Materials: |
| The handle is usually made of stainless steel or other durable materials, and the blades are often made of metal with a non-reflective coating. |
| Features: |
| Some laryngoscopes have features like disposable blades for hygiene, and video laryngoscopes with integrated cameras for improved visualization. |
| Ambu Bag (Bag-Valve Mask - BVM): |
| Bag: |
| A reservoir bag made of durable plastic or rubber, designed to hold a volume of air. |
| Valve: |
| A one-way valve prevents air from flowing back into the bag after it has been compressed. |
| Mask: |
| A face mask that fits snugly over the patient's mouth and nose, sealing the airway |
| Oxygen Inlet: |
| An inlet for attaching an oxygen source to supplement the air delivered by the bag. |
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| Ventilation: |
| When the bag is compressed, it delivers a controlled volume of air or oxygen to the patient's lungs. |
| Pressure Relief: |
| Features like a pressure relief valve prevent excessive pressure from being delivered to the lungs. |
| Compatibility: |
| Ensure the laryngoscope blade size is appropriate for the patient's anatomy and the endotracheal tube size. |
| Hygiene: |
| Use disposable blades or properly sterilize reusable blades to prevent cross- contamination. |
| Training: |
| Proper training is essential for using both the laryngoscope and the Ambu bag effectively. |
| Ventilation Techniques: |
| The Ambu bag can be used for ventilation during intubation and for post-intubation support. |

17.Fire
Extinguishers
- 4 KGs



Power Based Fire Extinguishers: - Supply and fixing of ABC stored pressure squeeze grip type fire extinguishers, 4 kg capacity, IS:15683 : 2006, filled with ABC Mono Ammonium Phosphate base powder-90 complete with discharge hose and wall mounting bracket, 2mm Mild Steel, EPDM Rubbers, Pressure Guage, which work effectively on all class of fires (A,B,C & Electrical fires)
Pressure measurement range should be 60 to 290 mm Hg systolic and 40 to 200 mm Hg diastolic.

Specifications for Group B Items:

1. Doctor Table with Lockers

Dimensions:

Length: Typically ranges from 36 inches (91 cm) to 72 inches (183 cm) or more, depending on the intended use (e.g., examination table vs. instrument table).

Width: Common widths are between 24 inches (61 cm) and 30 inches (76 cm).

Height: Usually around 30 inches (76 cm) to 36 inches (91 cm) for comfortable working height.

Number of Lockers: Can range from a single locker to multiple compartments.

Locker Dimensions (Internal): The usable space inside each locker (width, height, depth).

Locker Material: Often the same material as the table frame (stainless steel or powder-coated steel) for durability and aesthetics.

Door Type:

Hinged Doors: Most common, can have single or double doors per locker.

Sliding Doors: Useful in space-constrained areas.

Locking Mechanism:

Key Lock: Standard and reliable. May come with multiple keys.

Combination Lock: Offers keyless entry, can be mechanical or digital.

Electronic Lock: Provides advanced security features like key card access or pin codes.

Ventilation: Some lockers may have ventilation holes to prevent moisture and odor buildup.

2. Medicine Storage Racks

Material :- Mild Steel

Usage/Application:- Pharmacy

Color :- White

Product Type :- Free Standing Unit

Height (In Feet) :- 8 Feet

Surface Treatment :- Powder Coated

Size:-98 X 12 X 36 Inch

3. Iron Almirah

Steel Almirah as per following technical specification: Overall size: 915 (W) x 485 (D) x 1980 (H) mm including leg height of ~120 mm, full length of PVC shoes with screw fitting.

Materials: The CRCA steel sheet used for the body should be 0.9 mm thick as per IS-513 19

Construction: It should have multi bend construction with interlocking design and full length over lapping doors and sides. It should have three way bolting mechanism. The two doors should have hinge mounted on frame

Doors: The doors have one handle and lever locking mechanism with 6-Six lever Mazak Zinc Plated lock. CRCA DOOR sheet thickness 1mm and self-thickness 1.2mm

Powder coating: All steel components should undergo eight tank anti rust treatment and oven Baked epoxy polyester powder coating with 50-60-micron dry film thickness. It should sustain Salt Spray test to withstand more than 1000 hours as per IS-101, Pencil scratch hardness more than 2H, Adhesion as per DIN 53152 Standards.

Configuration: It should have 4 adjustable shelves made of 0.9 mm thick CRCA steel sheet with stiffener. Steel sheet shall be oven baked epoxy polyester powder coated with 40-50 dry film thickness.

Color: Silver Grey powder coated or Olive green or prince grey.

The manufacturer should compliant with ISO 9001, 14001 & OHSAS 18001



Warranty 1 Year

4. Doctors Revolving Chairs

Revolving chairs- Mesh Mid Back with Adj.Arms Larger Seats :-

SEAT/BACK ASSEMBLY: The seat is made up of 1.2 ± 0.1 cm thk. hot pressed plywood measured. The Back is made up of injection molded glass filled polypropylene & upholstered using Net fabric with high tenacity yarn.

- SEAT SIZE: 47.0 cm. (W) x 51.5cm. (D)
- BACK SIZE: 45.0 cm.(W) x 65.3 cm. (H)
- HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR polyurethane foam is molded with density =55+/-2 kg/m³ and hardness 16 ± 2 kgf as per IS: 7888 for 25% compression.
- ARMRESTS: The armrests have an Up-Down adjustment of 8.5 ± 0.5cm which is provided in armrest structure. Armrests top has an integrated layer of Thermoplastic Elastomer (TPE)
- LUMBAR SUPPORT ASSEMBLY: The Lumbar support consists of polypropylene pad. The Height of Lumbar pad can be adjusted through two projecting knobs provided on the rear side of the pad. Lumbar pad has an adjustment of 8.0 ± 0.5 cm in height.
- FRONT PIVOT SYNCHRO MECHANISM: The adjustable tilting mechanism is designed with the following features.
 1. 360° revolving type.
 2. Single point control.
 3. Front-pivot for tilt with feet resting on ground ensuring more comfort.
 4. Tilt tension adjustment.
 5. 4-position locking with anti-shock feature.
 6. Seat/back tilting ratio of 1:2.
- PNEUMATIC HEIGHT ADJUSTMENT: The pneumatic height adjustment has an adjustment stroke of 10.0 ± 0.3 cm. PEDESTAL ASSEMBLY: The pedestal is injection molded in black 30% glassfilled Nylon and fitted with 5 nos. twin wheel castors. The pedestal pitch- center dia is 066.1 ± 0.5 cm. (76.1 ± 1.0 cm. with castors).
- TWIN WHEEL CASTORS: The twin wheel castors are injection molded in black Nylon.
- OVERALL DIMENSIONS OF CHAIR:

WIDTH (W): 76.1 CM
 DEPTH (D): 76.1 CM
 HEIGHT (H): 98.0 - 108.0 CM
 SEAT HEIGHT (SH): 45.8 - 55.8 CM
- THE PRODUCT SHOULD BE:
 1. GREENGUARD GOLD
 2. IAQ GOLD
 3. GREEN PRO certified

Revolving chairs (with Head rest)- Mesh full back chair :-

- SEAT ASSEMBLY: The seat is made up of 1.5±0.1 cm thick hotpressed plywood upholstered with fabric and molded polyurethane foam.
- SEAT SIZE: 51.8cm (W) x 49.7cm (D)
- BACK ASSEMBLY: The Back is injection molded in glass filled Polypropylene which is 2 upholstered with Mesh fabric. The back consist of adjustable Lumbar support made of injection molded Polypropylene having an adjustment of 5.0 10.1 cm.
- BACK SIZE: 47.9 cm(W) x 66.9 cm (H)
- HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR polyurethane seat foam is molded with density 45+/-2 kg/m and hardness 14 ± 2 kgf as per IS: 7888 for 25% compression.

- **ARMRESTS (ADJUSTABLE):** The height adjustable armrest is made of Polypropylene and can be adjusted to 6.010.1cm height it also has swivel and To and Fro adjustment with molded PU arm top
- **ACTIVE BIO-SYNCHRO MECHANISM:** The adjustable tilting mechanism is designed with the following features 360° revolving type Front-pivot for tilt with feet resting on ground & continuous lumber support ensuring more comfort Tilt tension adjustment can be operated in seating position 5 position Tilt limiter giving option of variable sit angle to the chair Seat/back tilting ratio of 1:2 The mechanism housing is made up of HPDC Aluminum & black powder coated (DFT 40 to 60 micron)
- **PNEUMATIC HEIGHT ADJUSTMENT:** The pneumatic height adjustment with an adjustment stroke of 10.0±0.3cm.
- **PEDESTAL ASSEMBLY:** The pedestal is injection molded in black 30% glass-filled Nylon and fitted with 5 nos. twinwheel castors. The pedestal pitch- center dia is 166.1±0.5 cm. (76.1 ± 1.0 cm. with castors).
- **TWIN WHEEL CASTORS:** The twin wheel castors are Injection molded in black Polyamide having 6.01 0.1cm wheel Diameter. WIDTH (W) - 76.0cm, DEPTH (D) - 76.0cm, HEIGHT (H) - 95.5 cm105.5cm, SEAT HEIGHT - 43.5 - 54.0cm
- The Product should be
 1. GREENGUARD GOLD
 2. IAQ GOLD
 3. GREEN PRO certified

5.Revolving Stool/Patient chair

1. Manufacturer should be ISO 9001 certificate
2. Manufacturer should have ISO 14001 certification for Environment friendly features.
3. Manufacturer should have OIISAS 18001 certification for occupational health safety management
4. Product must be CE/BIS/BIFMA certified.
5. All stainless-steel material used in the medical furniture items must be made up SS 304 grade and should be supported by stainless steel grade certificate from Govt. approved testing laboratory duly mentioned about chemical composition. Copy of previous test report should be furnished in technical bid as well as during supply.
6. Manufacture should produce test certificate from Govt. approved laboratory for test procedure like impact test, bend test, salt spray chamber test, epoxy powder coating & phosphate coating for quoted item in technical bid as well as during delivery. (As applicable)
7. Should be an ISI Mark and Metal Quality Testing from Govt. Engineering Colleges/Polytechnic/ Reputed Institute.
8. Tubular tripod based with S.S. revolving top.
9. Height adjustable from approximately 460 mm to 650 mm by accurately machined screw mechanism.
10. S.S foot ring supports
11. Legs fitted with rubber PVC stumps.

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| 12. Pre-treated and powder coated finish. |
| 13. Warranty 1 year. |

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| 6. Equipment Lockers (15 Cabinets) |
| Material :- CRCA Sheet |
| Usage/Application :- Industrial, Office, Banks etc |
| Color:- Gray |
| Features :- Durable, Corrosion Resistant, etc |
| Shape :- Rectangular |
| Width :- 305 mm,1 2 inch |
| Finish :- Color Coated |
| No. of Lockers :- 15 Lockers |
| Height :- 305 mm,12 inch |

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| 7. Staff Lockers (15 Cabinets) |
| • Highlights :- |
| • Doors made of 0.8 mm thick powder-coated CRCA Sheet |
| • Body, Back & Shelves made of 0.6 mm thick powder-coated CRCA Sheet |
| • Locking facility available with a duplicate key |
| • Total 15 numbers of individual lockers |
| • Completely knock down design simplifies assembly |
| • Dimensions:- |
| • Width (cm) 90.5 |
| • Depth (cm) 40 |
| • Height (cm) 185 |
| • Weight (Kg) 52 |

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| <u>8 Chairs Category</u> |
| Category A main (High back rest Executive Chairs with arm rest for Category 'A') For Principal & MS Chamber |
| Executive Chair: High back revolving chair, lumber support, adjustable arms, Multi locking synchro tilt mechanism chair, gas lift for height elevation, chrome base with nylon castors. |

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| 9. Glass Door Almirah |
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Product Size: 915 mm (W) x 486mm (D) x 1981* mm (H)Height
 Construction & Material § Welded construction. 1.2 mm thk CRCA for Shelf &1.4 mm thk CRCA for all other components. Door Glasses fitted to full height steel frame.
 Locking 2 way locking mechanism with shooting bolt.
 Handle : Chrome plated brass handle
 Shelving: Height wise Adjustable Shelves 4 Nos. Uniformly Distributed Load
 Capacity per full shelf is 80 Kg maximum
 Leveler M10 Screw type leveler with hex plastic base. (add 10mm to unit height and additional 10mm for adjustment.) Finish Epoxy Polyester Powder coated to the thickness of 50 microns (+/-10)

10. Single Bed 6 x3 with mattress and pillow

Overall Size: Length - 2060.0 mm Width - 1131.0 mm Height - 945.0 mm
 Material: Bed Structure shall consist of metal frames made of M.S. Channels in 1.0 mm Thickness. Horizontal plinths and bottom plinth should be made up of 25 mm Thick Pre-laminated Particle Board. Head board should be made up of 18 mm thick Pre-laminated Particle board with imported H.D.F. foil wrapped decorative trims fixed to it. Tail board should be made up of 18 mm thick Pre-laminated Particle board with imported H.D.F. foil wrapped decorative trims fixed to it. Side rail should be made up of 18 mm thick Pre-laminated Particle board with imported H.D.F. foil wrapped decorative trims fixed on to it. Mattress panels of Bed should be made up of 18 mm thick Pre-laminated Particle Board with all the exposed edges are edge banded with 0.8 mm thick PVC edge banding.
 Construction: Knock Down construction. Packets: 1 Bed in 1 packets. Finish:18 mm thick Pre-laminated Particle Board is in Walnut shade. Metal frames are powder coated in shade Mat Black to the thickness of 50 microns(+/-2%).
 Both the options viz. MDF Board membrane pressed/ MDF board with superior quality laminated having thickness minimum 1mm are acceptable. Colour scheme shall be as approved by the furniture purchase committee.
 Mattresses Thickness: 10cm , Tulip is made of a breathable coir base with a cushioning foam layer on top for increased comfort
 Pillow Size (in cm) : 40 x 60FEATURES-Open cell structure that reacts to bodyheat and weight by moulding to the sleeper's body
 • Organic Cotton Fabric for extra comfort• Anti-fungal & Anti-allergic
 • Excellent neck support• Outstanding elasticity• Durable

11. Patient Waiting Chair (3 seater)

Seat Material :- PERFORATED MILD STEEL

Seating Capacity :- 3 Seater

Usage/Application :- Hospital

Arm Type :- Fixed Arms

Color :- Silver

Seating Height :- 18 -19 Inches

Height :- 3 Feet

Frame Finish :- MATT FINISH

Chair Material :- MILD STEEL

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| Weight :- 34kg |
| Thickness :- 1.5 |


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| 12. Laboratory Casework (3.8 M x 5.8 M) |
| Casework Configuration: Specify the desired layout. Common configurations include: |
| Perimeter Casework: Running along the walls. |
| Island Benches: Standalone work surfaces in the center of the room. |
| Peninsula Benches: Connected to a wall on one side. |
| Combination: A mix of these configurations. Provide a rough sketch or layout plan if possible. |
| Workstation Density: Specify the number of individual workstations required. |
| Aisle Widths: Define the minimum required space between casework runs for safe movement and access (typically 0.9 to 1.5 meters) |
| Equipment Integration: Identify any specific equipment that needs to be integrated into the casework (e.g., sinks, fume hoods, power outlets, data ports, gas taps). Specify their dimensions and utility requirements. |

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| 13. Laboratory Casework (9.1 M x 5.8 M) |
| Room Dimensions: 9.1 meters (width) x 5.8 meters (length) (approximate internal dimensions). |
| Casework Configuration: With this larger space, you have more flexibility. Consider: |
| Multiple Runs of Perimeter Casework: Maximizing wall space for benches and storage. |
| One or More Island Benches: Providing central work areas and potentially housing shared equipment. |
| Peninsula Benches: Creating defined workstations extending from the walls. |
| Specialized Zones : Designating areas for specific activities (e.g., wet lab, dry lab, instrumentation area). Provide a detailed layout plan. |
| Workstation Density: Determine the number of individual workstations needed, considering both current and potential future needs. |
| Aisle Widths: Maintain adequate aisle widths (1.2 to 1.8 meters is recommended in larger labs) for comfortable movement, equipment transport, and emergency egress. |

| 14. Examination Revolving Stool | |
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| Sl. No | Technical Specification |
| 1 | Overall Dimension: Overall Sizes Diagonal Leg Dia 540 mm H470 min-655 mm max with +/-5% tolerance |
| 2 | Top plate should made of SS 304made sheet with spin section of thickness 1mm & should be non corrosive. It should have a diameter of 305mm, |
| 3 | seat base should made of MS ring and rectangular tube. |
| 4 | EN8 Screw having dia of 22 mm should be used for height adjustment of the seat base. |

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| 5 | The round hub should be made of MS ERW tube having dia of 38mm and thickness 2 mm. The Hub should be welded with the legs and it should accommodate and cover the lead screw mechanism. |
| 6 | The under structure should consist of 4 legs made up of MS ERW tube of diameter 25.4 mm and 1.6mm thick. The press formed pipe leg should give a round & clean look. All the legs should be provided with 4 nos of Nylon-6 bush. |
| 7 | All metal components should be pre treated with zincphotostatting in 9 tank process and then powder coated with anti microbial epoxypolyester powder coating to fulfill the requirements for bacterial protection against at least 2 commonly found bacteria in Hospital environment [Gram positive and Gram Negative]. |
| 8 | Safe working load must be 135kg |
| 9 | Manufacturer should be ISO 13485:2016 |

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| 15. Records Cabinet (Glass Doors - 4 Shelves) | |
| • Glass Doors: | Allow for easy viewing of contents while keeping them protected from dust and damage. |
| • 4 Shelves: | Provide ample storage space for records, documents, books, or other items. |
| • Material: | Often made of tempered glass for durability and safety, with a frame of solid wood or metal. |
| • Dimensions: | Size can vary, but a common size might be 64.56" (H) x 33.69" (L) x 14.37" (W) inches. |
| • Functionality: | Suitable for office storage, library organization, or home display. |
| • Style: | Can be floor-mounted or wall-mounted depending on the design. |
| • Color: | Available in various colors like black, white, or natural wood. |
| • Accessibility: | Some cabinets have adjustable shelves and smooth-operating sliding doors with locks. |

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| 16. Chairs for patient waiting area |
| It should have three seats with 2 arms at end. |
| The cross beam should be made up of black powder coated rectangular M. S. |
| ERW tube having good strength. |
| Leg & Armrest should be chrome plated & made up of cold rolled steel. |
| Seat Back Shell should be powder-coated perforated shell made from cold rolled M. S. sheet. The Side Bar should be made up of chrome plated solid steel. The shell should be assembled on the Cross Beam with help of Bolts. Sufficient no. of bolts should be used to fasten shell on cross beam. |
| The width (W), height (H), seat height (SH) & depth (D) should be within 176 to 184 cm, 76 to 80 cm, 39 to 42 cm & 61 to 64 cm respectively as shown in the diagram: |
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| The manufacturer should be compliant with ISO 9001, 14001 & OHSAS 18001 |
| Warranty 1 Year |

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| 17. Superintendent Table |
| Length: Varies greatly depending on the intended use (e.g., small side table, large work table). Could range from 24 inches (60 cm) to 72 inches (180 cm) or more. |
| Width: Also varies, typically from 18 inches (45 cm) to 48 inches (120 cm). |
| Height: Standard table heights are around 29-30 inches (73-76 cm) for desks or work tables, but support tables might be lower or higher depending on their function. |
| Weight Capacity: The maximum weight the table can safely support. This is crucial depending on the intended use. |
| Mobility: |
| Fixed Legs: Standard for most tables. May include adjustable feet for leveling. |
| With Casters/Wheels: Allows for easy movement. Casters may be lockable. |
| Storage: |
| No Storage: A simple tabletop with legs. |
| Drawers: For storing supplies and documents. Specify the number, size, and type of drawers. |
| Shelves: Open storage for easy access. Specify the number and adjustability of shelves. |
| Cabinets/Lockers: Enclosed storage, potentially with locking mechanisms for security. |
| Assembly: Whether the table requires assembly and the complexity of the process. |
| Finish: The surface treatment of the materials (e.g., matte, gloss, textured, stained, |

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| painted). |
| Edge Detail: The design of the tabletop edge (e.g., square, rounded, beveled). |

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| 18. Visitors Chairs |
| Chair Type :- Non-Revolver and Non-Tilting chair with Armrest |
| Chair frame type:- Cantilever |
| Armrest type:- Moulded armrest continuously fitted with seat bottom to backrest |
| Seat type:- Moulded / Padded |
| Backrest type:- Moulded / Padded |
| Armrest front side:- Curved |
| Shoe/Studs material :- Not Applicable |
| Seat Fitted :- Over flat size in depth-wise of the frame on both sides with minimum 3 screws |
| Backrest Fitted :- By round head screws 3 Nos. (minimum) on each side |
| Armrest Fitted :- With round steel screws 3 Nos. (minimum) on each side |
| Frame material :- Steel tube (ERW quality) conforming to IS: 1161 (with latest Amendment) |
| The shape of tubular section of frame :- Round |
| Section Size (Diameter/Sides) of frame :- 25 mm |
| Frame section wall thickness :- 2 mm |
| The armrest material :- PU (reinforce with MS insert) |
| Armrest Padded with :- Foam |
| Armrest upholstered with :- PU sheet |
| Armrest material thickness :- 30 mm |
| Seat material :- Moulded Plywood |
| Seat material thickness :- 40 mm |
| Seat padded :- Yes |
| Density of Polyurethane foam used in seat (± 2 Kg/Cub Meter) :- 45 |
| Seat upholstered with :- Fabric |
| GSM of seat cover (± 3 GSM) :- 220 GSM |
| Backrest material :- Moulded Plywood |
| Backrest Material thickness :- 35 mm |
| Backrest padded :- Yes |
| Density of Polyurethane foam used in Backrest (± 2 Kg/Cub Meter) :- 45 |
| Seat Depth (± 5 mm) :- 430 mm |
| Seat Width (± 5 mm) :- 480 mm |
| Seat height from floor surface (± 5 mm) :- 435 mm |
| Backrest width (± 5 mm) :- 490 mm |
| Backrest height from seat (± 5 mm) :- 460 mm |
| Paint Type :- Epoxy |
| Seat/Back Assembly :- The seat and back should be made up of 1.2cm+/- 0.2cm thick hot pressed plywood upholstered with fabric and moulded polyurethane foam with PVC lipping all around. The back foam should be designed with countered lumbar support for extra comfort. |

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| Armrest :- The armrest should be one piece made of hard black integral skin |
| High Resilience (HR) polyurethane foam:- The High resilience Polyurethane foam should be moulded with density 45+/- 2kg/m ³ and hardness load 16+/- 2kgf. |
| Warranty :- Min 1 year |

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| 19. Nursing Station with Lockers |
| Feature of Nurse station:- |
| 1.The Nurse Station counter design with two work tops with proper positioning and functional assembly to place the working files, reference documents etc. Counter Depth : 600mm,Height 1050mm. |
| 2.The main top Panel & upper top of the counter will be made up of 25mm thick High Quality Corian top as per approved shade . |
| 3.The profile of the main top will be in rectangle shape and the edges will be sealed with 2mm thick, thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius & gromet cutting to ensure inlet and outlet of wires & Cables. The Counter shall have panel-based partition of 60 mm thick with overall height 1025mm. |
| 4.There will be soft-board (with fabric) and marker board provided at front of the user. Laminated top tile and bottom tile will be situated at both sides of the user and below the work top respectively. |
| 5.Partition will have concealed wire management capabilities and will be engaged for responsive and safe operations of power, telecommunications, and data (LAN) and has separate components for electrical, data and telephone cables having adequate capability of both the vertical and horizontal wire movements. Slots/cut- outs will be given on raceways to fix all electrical and data points. |
| 6.Zinc coated small top support brackets will be fixed on the partition for tabletop support. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting will be situated at bottom. |
| 7.Adjustable leveller shoe will be provided at bottom of the partition to avoid scratches on the floor. |
| 8.Fixed pedestal : One pedestal for two person. 04 Equal Drawers with lock. Made up of 18mm thick PreLaminated Particle Board |
| 9.06 module electric plate with 02 switches and 02 sockets. |
| Counter: |
| • Size: Typically 6ft x 2.5ft main table with a side table. |
| • Material: High-quality plywood with laminate finish, or Korean material. |
| • Features: May include a pin-up board, white marker board, and a wire manager. |
| • Storage: Can have drawers and a box with lockable access. |
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| Countertop: 25mm thick Corian or other solid surface material. |
| Lockers: |
| Material: Often made of stainless steel or powder-coated steel. |
| Size: Can vary but may be 400mm (L) x 400mm (W) x 800mm (H). |
| Security: Locking mechanisms for secure storage of personal belongings. |

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| Access: May have key, code, or smart card access options. |
| Additional Features: |
| Pedestals: Storage pedestals for documents and other materials. |

20. Dustbins Large Set (Colour Coded)

Capacity: This is the primary measure of size, usually expressed in liters (L) or gallons (gal). A "large" household dustbin might range from 50 liters (around 13 gallons) upwards. Commercial or industrial bins can be much larger, reaching hundreds or even thousands of liters.

Dimensions: The physical measurements of the dustbin (height, diameter or width and depth). These will vary greatly depending on the capacity and shape.

Swing Lid: Allows for hands-free disposal but may not seal odors as well.

Step-On Lid: Hygienic as it opens with a foot pedal, often seals odors better.

Touch-Top Lid: Opens with a push.

Sensor Lid: Opens automatically when motion is detected.

No Lid: For open disposal of certain waste types.

Locking Lid: For security or to prevent access by animals.

21. Category B (HOD/Professor/Associate Professor/DMS/CMO/MO)

HOD/PROFESSOR/ASSOCIATE PROFESSOR/DMS/CMO/MO TABLE: Top is made of 25mm pre-laminated particle board with PVC edge banding with Aluminum Flip-up. Size : 2100 L x 7500D x 750H, Providing 3 draw pedestal unit with single locking facility. Side Runner of Size 1200L x 400D x 750H
18mm pre-laminated particle board having 2 draws and 2 open able doors with locking facility. 18mm edge binding top.

22. Conference Table

Type-1 with 12 chairs with 1 high Back

Conference Table (Type-1 with 12 chairs with 1 High back) WITH 2 POP UP BOXES. Table Top- 25mm thick PLB top with 2mm thick PVC edge binding, Provision for cable Managers. Bottom structure: M.S. Powder Coated section of 50 x 50 x 1.5mm thick section fabricated as per our designs and Levelling screws in the bottom and nylon L- brackets for the table top supports and underneath the table in CRCA metal framing with covers, provisions for internal wiring for electrical and LAN/Telephone below the table top. Size : 2400 x 1200 x 750

Type-2 with 28 chairs with 1 high Back

Conference Table (Type-2 with 28 chairs with 1 High back) WITH 2 POP UP BOXES. Table Top- 25mm thick PLB top with 2mm thick PVC edge binding, Provision for cable Managers. Bottom structure: M.S. Powder Coated section of 50 x 50 x 1.5mm thick section fabricated as per our designs and Levelling screws in the bottom and nylon L- brackets for the table top supports and underneath the table in CRCA metal framing with covers, provisions for internal wiring for electrical and LAN/Telephone below the table top.

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| Size : 5400 x 1200 x 750 |
| Type-1 with 45 chairs with 1 high Back |
| Conference Table (Type-2 with 45 chairs with 1 High back) WITH 2 POP UP BOXES. Table Top- 25mm thick PLB top with 2mm thick PVC edge binding, Provision for cable Managers. Bottom structure: M.S. Powder Coated section of 50 x 50 x 1.5mm thick section fabricated as per our designs and Leveling screws in the bottom and nylon L-brackets for the table top supports and underneath the table in CRCA metal framing with covers, provisions for internal wiring for electrical and LAN/Telephone below the table top. Size : 5400 x 1200 x 750 |
| Podium made Wooden with Rly Way Sun glass |
| Podium of size :550 X 550 X 1100 Providing 1 key board tray and shelf |
| 121X50X45 Cms Colour brown MDF wood reading table angled with provision for Audio. |

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| 23. Doctor Table |
| 1.Table For Doctors With Four Drawers/Doctor's Desk. |
| 2.Metal body and top is of wooden fitted with Sun Mica sheet, with four drawers with the safety locks for security of belongings. Mounted on 4 legs fitted with plastic feet. |
| 3. Dimensions:- |
| 75 x 75 x 160 cm |

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| 24.Office Chair |
| Chrome plated M5 base, twin wheel nylon castors, pneumatic high adjustment swivel tilting mechanism , PU moulded soft arm rest, HDPU moulded roam cushioned seat and back |
| Warranty 1 year |

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| 25. CMO Chair (Revolving) |
| Tilt Mechanism :- Synchronic tilt mechanism |
| Locking Mechanism :- Tilt limiter |
| Armrest Type And Arm Movement Hint: The Buyer May Indicate The Number Of 'Up' And 'Down' Arm Movements At The Time Of Bid Creation :- Adjustable (up and down) |
| Seat Depth :- Adjustable |
| Backrest Type :- Tilting |
| Backrest Support Type :- Adjustable lumber support |
| Headrest Type :- Adjustable |
| Twin Wheel Castor Material :- Nylon |
| Armrest Material :- PU molded over plastic inner |
| Seat Base Material :- Hot pressed plywood |
| Seat Material :- PU foam |
| Minimum Density Of Foam Used In Seat :- 30 kg per cubic meter |

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| Minimum Thickness Of PU Foam Used In Seat :- 30 mm |
| Seat Upholstery Material :- 100 % Polyester fabric |
| Backrest Base Frame Material :- Hot pressed plywood |
| Padding At Backrest :- PU foam |
| Upholstery Material Thickness ::Fabric Substance Used In Seat ::Backrest :- Minimum 200 GSM (for Woven fabric) |
| Backrest Upholstery Material :- Mesh fabrics |
| Minimum Width Of Seat :- 500 mm |
| Minimum Depth Of Seat :- 450 mm |
| Backrest Height :- High back (551 and above) |
| Finish Of Exposed Metal Parts :- Buff finish |
| Pedestal Base :- Aluminium die Cast |
| Warranty :- Min 1 year(as per defect liability period provision of GPC, to ensure purchase of good quality office chairs) |

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| 26.Office Table |
| Make & Model: VDI & 0045 |
| 1. Manufacturer should be ISO 9001 certificate |
| 2. Manufacturer should have ISO 14001 certification for Environment friendly features. |
| 3. Manufacturer should have OHSAS 18001 certification for occupational health safety management |
| 4. Product must be CE/BIFMA certified. |
| 5. All stainless-steel material used in the medical furniture items must be made up SS 304 grade and should be supported by stainless steel grade certificate from Govt. approved testing laboratory duly mentioned about chemical composition. Copy of previous test report should be furnished in technical bid as well as during supply. |
| 6. Manufacturer should produce test certificate from Govt. approved laboratory for test procedure like impact test, bend test, salt spray chamber test, epoxy powder coating & phosphate coating for quoted item in technical bid as well as during delivery. (As applicable) |
| 7. Should be an ISI Mark and Metal Quality Testing from Govt. Engineering Colleges/Polytechnic/ Reputed Institute. |
| 8. Dimensions: 1200mm W X 600mm D X 750mm H |
| 9. Material: PLB/PLT - Top 25 mm thickness. |
| 10. All PLB and PLT (Prelaminated twin) is of following grade. |
| 11) Grade I Type I - Designation - PLB-22 (As per IS: 12823 –1990) |
| 12) Each PLB/PLT may contain following material layers: |
| 13) Particle board, top with 2mm thick hot pressed PVC beading with keyboard Moulded type. |
| 14) a) Under structure: This table should be Square CR tube 30 x 30 under structure with Prime Quality C.R steel square tube 1.22mm Thickness. |
| 15) Storage: 3 Draw is provided for storage. With Right Side with Metal shall be provided. |

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| 16) Body for Storage Units: Body and draws for storage unit dimensions 390 W X 430HX 560 D mm shall be made from CR Steel sheet not less than 0.8 mm thick with heavy duty Telescopic Channels. This shall be bent to box shape from one piece and tack welded at final overlapped corner or assembled with a maximum of two pieces properly welded |
| 17) All steel metal components are manufactured from finest quality steel, which conforms as per IS-513 Grade D, DD |
| 18) All steel tubes used for desk under structures are as per IS-3601-1984, IS-7138-1973, IS-4923-1985. |
| 19) Shoes – These shall be manufactured from hard rubber or PVC and shall be uniform in texture and chemically inactive to the action of mild acids. The nominal height of the shoes, shall be 35mm |
| 20. Warranty 3 years |

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| 27. Superintendent Chair (Revolving) |
| High-quality leather (genuine or faux) for a premium look and durability. |
| Breathable and durable fabric. |
| Frame: Sturdy materials like steel or reinforced nylon. |
| Base : A stable 5-star base, usually made of aluminum or heavy-duty nylon. |
| Casters: Designed for smooth rolling on carpet or hard floors. |
| Dimensions and Weight |
| Overall Height: Adjustable. |
| Seat Width: Wide enough for comfort. |
| Seat Depth: Adjustable. |
| Backrest Height: High back for full support. |
| Weight Capacity: Designed to support a significant weight. |
| Headrest : Adjustable for neck and head support. |
| Waterfall Seat Edge: Reduces pressure on thighs. |
| Contoured Cushions: Provides even weight distribution and support. |
| Style: Executive style, suitable for office environments. |
| Certifications: Meets industry standards for safety and durability. |

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| 28. Medicine Plastic Trays |
| The ubiquity of plastic trays in healthcare settings is due to their unique combination of properties: |
| 1. Durability: They withstand frequent use and cleaning. |
| 2. Lightweight: Easy to carry and maneuver in busy hospital environments. |
| 3. Customizable: Available in various sizes and configurations. |
| 4. Hygienic: Non-porous surfaces resist bacterial growth. |
| 5. Cost-effective: Affordable and long-lasting. |

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| 29. Visitors Sofa Set |
| Material :- LEATHERITE UPHOLSTERED |
| Color :- Black |
| Size :- 1500mm |
| Shape :- LINEAR |
| Usage/Application :- OFFICE RECEPTION |
| Seating Height (In mm) :- 450 |
| Back Style :- Tight Back, Cushion Back |
| Frame Material :- Stainless Steel |
| Seat Material :- Leather |
| Dimension for 3 seater :- 1850 mmX890 mm (h) |
| Dimension for single seater :- 800 mmX890 mm (h) |

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| 30. Tables |
| Type: Utility Table / Multi-purpose Table |
| Shape: Rectangular |
| Typical Dimensions: |
| • Length: 90 cm - 120 cm (35 inches - 47 inches) |
| • Width: 60 cm - 75 cm (24 inches - 30 inches) |
| • Height: 70 cm - 75 cm (28 inches - 30 inches) - This is a standard dining/work surface height. |
| Tabletop Material: |
| • Option 1 (Common): Engineered wood (MDF or Particleboard) with a laminate or veneer finish. This offers durability and ease of cleaning at a reasonable cost. The finish could be melamine, PVC laminate, or wood veneer. |
| • Option 2 (More Durable): Solid wood (e.g., Sheesham, Rubberwood) with a protective finish (varnish or lacquer). This offers a more premium look and feel and can be more durable. |
| • Option 3 (Budget-friendly): Plastic (often molded) - Lightweight and easy to clean, suitable for less demanding use. |
| Leg/Frame Material: |
| • Option 1 (Common): Metal (steel) with a powder-coated finish for durability and rust resistance. Legs might be straight, angled, or tubular. |

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| <ul style="list-style-type: none"> Option 2: Wood (matching or contrasting the tabletop material) - Can offer a more cohesive aesthetic. Legs could be straight, tapered, or more decorative. |
| <ul style="list-style-type: none"> Option 3: Plastic - Often used for lightweight or outdoor tables. |
| Finish (if applicable): |
| <ul style="list-style-type: none"> Laminate: Matte or glossy, various colors and patterns (including wood grain). |
| <ul style="list-style-type: none"> Veneer: Natural wood finish with a protective topcoat (varnish or lacquer). |
| <ul style="list-style-type: none"> Powder Coating (for metal): Provides a durable and even finish in various colors. |
| Weight: Typically ranges from 8 kg to 20 kg (18 lbs to 44 lbs) depending on the size and materials. |
| Weight Capacity: Generally designed to hold between 20 kg to 50 kg (44 lbs to 110 lbs) of evenly distributed weight. Avoid placing very heavy items. |
| Assembly: Usually requires some assembly of the legs to the tabletop using screws and Allen keys (often included). |
| Care Instructions: Wipe clean with a damp cloth. Avoid harsh chemicals and prolonged exposure to moisture. For wooden tops, avoid extreme temperature changes and direct sunlight. |
| Intended Use: Indoor use for various activities like eating, working, hobbies, or as a general utility surface. |

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| 31. Doctor Chair |
| <ul style="list-style-type: none"> Seat Height Adjustment: Usually pneumatic or hydraulic, allowing for a wide range of height adjustments to suit different user heights and working positions (e.g., when examining a standing patient versus working at a desk). The adjustment mechanism is often hand-operated or foot-operated for hands-free control in sterile environments. |
| <ul style="list-style-type: none"> Backrest: |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> Height Adjustable: To provide optimal support for the user's back. |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> Tilt Adjustable: To allow the doctor to lean back slightly for comfort during longer procedures or consultations. Some may have a locking mechanism for stability. |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> Lumbar Support: Often adjustable in height and depth to support the natural curve of the spine and prevent back strain. Some advanced models may offer dynamic lumbar support that adjusts automatically to the user's movements. |
| <ul style="list-style-type: none"> Seat: |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> Material: Typically made of easy-to-clean, durable materials like synthetic leather or antimicrobial fabrics to meet hygiene standards. |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> Padding: Sufficient cushioning for comfort during extended use. Some may have ergonomically shaped seats (e.g., saddle-style) to promote better posture and reduce pressure points. |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> Rotation/Swivel: Usually 360-degree rotation to allow the doctor to easily move around their workspace without straining. |
| <ul style="list-style-type: none"> Base: |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> Number of Legs/Support Points: Commonly a 5-star base for stability. |

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| <ul style="list-style-type: none"> ◦ Material: Often made of aluminum (polished or coated) or durable plastic. |
| <ul style="list-style-type: none"> ◦ Castors/Glides: May have braked or unbraked castors for easy movement on various floor types. Some models offer the option of glides (fixed feet) for situations where mobility isn't required. The type of castor (hard for soft floors, soft for hard floors) might be specified. |
| <ul style="list-style-type: none"> • Load Capacity: Typically designed to support a certain weight limit (e.g., up to 140 kg). |
| Optional and Advanced Features: |
| <ul style="list-style-type: none"> • Armrests: |
| <ul style="list-style-type: none"> ◦ Adjustable Height: To support the arms and reduce shoulder and neck strain. |
| <ul style="list-style-type: none"> ◦ Adjustable Width: To accommodate different body sizes. |
| <ul style="list-style-type: none"> ◦ Pivotal: Some armrests can be swung out of the way for easier |

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| <ul style="list-style-type: none"> Footrest: May be adjustable in height and angle for added comfort and support for the legs and feet. Some are ring-shaped and attached to the gas spring. |
| <ul style="list-style-type: none"> Headrest: Some specialized doctor chairs, particularly those used in ophthalmology or surgical settings, may include an adjustable headrest for patient support. |
| <ul style="list-style-type: none"> Tilt Mechanism: Some chairs have a synchro-tilt mechanism where the backrest reclines more than the seat, allowing for a more natural and comfortable movement. Tilt tension adjustment may also be present. |
| <ul style="list-style-type: none"> Specific Applications: Chairs designed for particular medical fields (e.g., ENT, ophthalmology, surgery) may have unique features tailored to those specialties, such as specific headrest designs or integrated controls. |
| <ul style="list-style-type: none"> Cleanliness and Sterility: Materials may be chosen for their resistance to disinfectants and ease of cleaning. Some chairs used in sterile environments may have foot-operated controls to minimize hand contact. |
| <ul style="list-style-type: none"> Color Options: Often available in a range of colors for aesthetic preferences and to match clinic decor. |
| Key Dimensions (may vary greatly): |
| <ul style="list-style-type: none"> Seat Width: Typically around 45-50 cm. |
| <ul style="list-style-type: none"> Seat Depth: Typically around 40-45 cm. |
| <ul style="list-style-type: none"> Seat Height Range: Can range from approximately 40 cm to over 70 cm depending on the model and gas lift. |
| <ul style="list-style-type: none"> Backrest Width: Typically around 40-50 cm. |
| <ul style="list-style-type: none"> Backrest Height: Typically around 45-55 cm. |
| <ul style="list-style-type: none"> Overall Chair Dimensions: Will vary depending on the features and adjustments. |
| <ul style="list-style-type: none"> Base Diameter: Often around 60-70 cm for stability. |

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| 32. Cooking Table |
| Material: |
| <ul style="list-style-type: none"> Top Surface: Stainless steel (various grades like 304 or 430), wood (various types like maple, butcher block), granite, marble, laminate. The material affects durability, hygiene, heat resistance, and aesthetics. |
| <ul style="list-style-type: none"> Frame/Legs: Stainless steel, carbon steel (often powder-coated), wood. |
| Dimensions: |
| <ul style="list-style-type: none"> Length: Can range from small (e.g., 60 cm / 2 feet) to very long (e.g., 240 cm / 8 feet or more). |
| <ul style="list-style-type: none"> Width (Depth): Typically ranges from 60 cm (2 feet) to 90 cm (3 feet), but can be wider or narrower. |
| <ul style="list-style-type: none"> Height: Standard countertop height is around 90 cm (36 inches), but can be adjustable or different depending on the intended use (e.g., lower for prep work while seated). |
| Weight Capacity: The maximum weight the table can safely hold. This is especially important for commercial tables that need to support heavy equipment. |
| Legs: |
| Adjustable Feet: To level the table on uneven floors. |
| Castors/Wheels (with brakes): For mobility, often found on commercial |

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| tables. |
| Edges: Can be square, rounded, or have a bullnose profile. |

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| 33. Bedside Attender Stools |
| <ul style="list-style-type: none"> • Purpose: To provide temporary seating for visitors or attendants at a patient's bedside. |
| <ul style="list-style-type: none"> • Type: Typically a simple, non-adjustable stool. Some may be foldable for easy storage. |
| <ul style="list-style-type: none"> • Frame Material: |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> ◦ Mild Steel: Often with a powder-coated finish for durability and ease of cleaning. This is a common and cost-effective option. |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> ◦ Stainless Steel: Offers excellent corrosion resistance and hygiene, making it suitable for hospital environments. However, it might be more expensive. |
| <ul style="list-style-type: none"> • Top Material: |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> ◦ Stainless Steel: Durable, hygienic, and easy to clean and disinfect. May or may not have a slight curvature for comfort. |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> ◦ Steel Sheet (CRCA): Often double-bent and machine-pressed for strength. May have a superimposed stainless steel top layer. |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> ◦ Upholstered: Some models may have a cushioned top covered with vinyl or other easy-to-clean, antimicrobial material for added comfort. |
| <ul style="list-style-type: none"> • Legs: Usually four legs for stability. |
| <ul style="list-style-type: none"> • Leg-end Fittings: Typically fitted with rubber or PVC shoes/stumps to prevent slipping and protect the floor. |
| <ul style="list-style-type: none"> • Finish: Often pre-treated and epoxy powder-coated (for mild steel) or polished (for stainless steel) for a smooth, durable, and easy-to-clean surface. |
| Dimensions (Typical Ranges): |
| <ul style="list-style-type: none"> • Top Size: Generally square or round, with dimensions ranging from 250 mm x 250 mm (10" x 10") to 305 mm x 305 mm (12" x 12") or a diameter of around 300-400 mm. |
| <ul style="list-style-type: none"> • Height: Usually fixed, with common heights ranging from 450 mm to 510 mm (18" to 20"). Some might offer a slight height variation within a specific model range. |
| <ul style="list-style-type: none"> • Overall Dimensions: Approximately 300 mm (L) x 300 mm (W) x 450-510 mm (H). |

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| 34. Examination Table with Lockers |
| Technical Specification |
| 1. Overall dimension 1975 mm (L) x 560 mm (W) x 805 mm (H) with +/-5% tolerance |
| 2. Examination couch with three drawers with three cabinets, inbuilt step stool and BP tray holder |
| 3. The base frame should be made of 30 mm x 30 mm 1.6 thick ERW tube. The cabinets should be made of 1 mm thick CRCA sheet with recessed plastic handles and with lock and door clutch. |

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| 4.The drawers should made of 1 mm thick CRCA sheet with recessed plastic handles and with ball slides for smooth glide. |
| 5.The mattress platform should be made of 12 mm thick and made of PU foam, leatherite and ply board. The headrest should be adjustable on gas lift. |
| 6.There should be ss304 made tissue roll holder. |
| 7.There should be 1 mm thick CRCA made step stool with leveler with ball slide for smooth operation. |
| 8.There should be 1 mm thick CRCA made BP apparatus holder. |
| 9.Total load bearing capacity should be 135 kg. |
| 10.All the metal parts should be pre treated and powder coated with epoxy polyester powder coating. |
| 11.Manufacturer should be ISO 13485:2016 |

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| 35.Oxygen cylinder with Trolley |
| Technical Specification |
| 1. Cylinder Trolley (Push Type) fitted with 2 castors, MS tubular framework made of approx. 25.4mmx18G MS.100 mm dia. With M.S. body frame. Suitable for 1320 ltrs. Size gas cylinders. Trolley with SS base. |
| 2. Manufacturer should be ISO 13485:2016 |

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| 36.Crash cart/ Emergency Medicine trolley |
| Crash Trolley, mobile model for Casualty and Emergency rooms to have provisions to place all the emergency drugs including IV fluid bottles of different sizes and small oxygen cylinder and IV stand. The framework shall be made of CRCA Mild Steel tubular pipes mounted on Castors. The unit shall be supplied complete with the optional accessories as well as with the following features |
| Six removable bins and two polystyrene storage units with three drawers each |
| The unit shall be provided with 125 mm dia castors and Corner buffers |
| Oxygen cylinder holder, electric lamp, IV pole, cardiac massage board |
| Construction: |
| Material: The trolley shall have a framework of single continuous length mild steel tubes and the thickness of M.S. tubes used and their corresponding outside diameters are 1.22 mm thickness and 25.4 mm diameter respectively. The shelves shall be made of prime quality tested SS sheet of at least 1.2mm thickness. The bonding of the steel components shall be strong and neat for providing a smooth and elegant look. |
| Finish: The finish shall be scratch resistant. All Mild Steel components (Inside and out-side) shall thoroughly pre-treated in an eight stage pre-treatment system, as per Indian Standards for longer life and durability. On completion of pre-treatment of the articles. Should be fitted with examination light. |
| Warranty 1 year |

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| 37.Instrumental trolley |
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| • Shelf & Top S.S. 304 Grade |
| • 125mm Dia Castor Two with Brakes and Two without Brakes |
| • Complete S.S. in 3m Matte Polish Finish |
| • Complete S.S. Tubular Frame Work of 25mm X 18g, S.S. 304 Grade |
| • Three Sided S.S. Railing on Both Upper and Lower Shelves. |

Specifications for Group C Items:

1. Automated Blood Culture/Liquid Media System along with Automated Organism Identification and Antimicrobial sensitivity system with veterinary settings

1. The system should be a fully automated, walk away system capable of culture and detection of bacteria, fungi and mycobacteria from blood and sterile body fluids and mycobacteria from Sputum

2. Should have capacity to hold at least 120 bottles at a time – 60 for blood and (30-60) for mycobacterium. The capacity should be upgradable.

3. The system should continuously monitor the samples for growth and report it as and when it occurs.

4. The culture media provided should have sufficient mechanism to neutralise the inhibitory effect of antibiotics and other substances in blood.

5. Culture media should be available for detecting bacteria and fungi, including fastidious organisms

- The culture bottles should be unbreakable in normal conditions.
- The culture system should be suitable for processing blood and sterile body fluids.

6. Should be capable of processing both adult and the pediatric samples.

7. The system should be maintenance free without any need for regular calibrations, controls or standards run by the user.

8. The system should use leak proof and on non-invasive system to avoid contamination of equipment and environment.

9. The culture bottles should have high stability and (4-6) months shelf life.

10. The system should have all the facilities for data management and storage and quality control.

11. The system should be supplied in a complete system with all accessories, hardware like computer, printer etc. and required software.

12. Any software or database updates should be done free of cost by the firm, during the life of equipment, as and when it is released by the manufacturer.

13. Required training, technical literature and support should be provided by the firm.

14. Any calibration, routine maintenance and replacement of the parts like

sensors, lamps etc required during the warranty and AMC and which is not covered by the same, should be declared and the respective costs quoted.

II. Mycobacterial Culture System

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| 1. The mycobacterial culture system may be part of blood culture system or a standalone equipment, fully automate or semi-automated. |
| 2. Should have the ability to process at least 50 samples per month using the standard protocols. |
| 3. Culture media for specific detection of mycobacteria from various specimens like sputum, csf, urine etc should be available. |
| 4. The system should use leak proof and noninvasive system to avoid contamination of equipment and environment. |
| 5. The culture bottles should have high stability and (4-6) months shelf life. |
| 6. Any software or database updates should be done free of cost by the firm, during the life of the equipment, as and when it is released by the manufacturer. |
| 7. Required training and technical literature and the support should be provided by the firm. |
| 8. Any calibration, routine, maintenance and replacement of parts like sensor, lamps etc, required during the period of warranty and AMC, and which is not covered by the same, should be declared by the respective cost quoted. |
| III. Automated organism identification and Antimicrobial sensitivity system |
| 1. The system should be a fully automated. |
| 2. The system should be capable of simultaneous testing of minimum 50 samples, (25 identification and 25 Antibiotic Susceptibility testing) |
| 3. Should be able to identify Gram positive bacteria, Gram negative bacteria and yeast like organisms. The system should be capable of identifying and testing antimicrobial susceptibility for fastidious organisms like H. influenza, N. meningitidis etc. |
| 4. The system should be able to detect antibiotic resistant organisms like MRSA, VRE, HLAR, VRSA, B-lactamase and ESBL production, multidrug resistant organisms. |
| 5. It should be an intelligent system and should give alerts for any unusual antimicrobial resistance. |
| 6. The system should have bar code scanning system for easy management of samples. |
| 7. The system should be maintenance free without any need for regular calibrations, controls or standards run by the user. |
| 8. The system should use leak proof and non invasive system to avoid contamination of equipment and environment. |
| 9. The identification system should be complete in itself without the need of additional tests done manually. |
| 10. The identification should be based on oxidation – reduction indicator and turbidometric growth detection with at least 1000 reference phenotypes as per CLSI phenotypic characterization. |
| 11. The system must provide antibiotic susceptibility testing reports in the form of MIC values by estimating true MIC by true double dilution method in line with latest CLSI guideline. |
| 12. The system should provide highest discrimination between species. |
| 13. The system should have panels for identification alone or Antibiotic Susceptibility alone or combined. |
| 14. The reagents / strips should have high stability and long shelf life. The shelf life of consumables should be declared along with the quote. |

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| 15. The system should have facilities for data management and storage and Quality control. |
| 16. The system should be supplied in a complete system with all accessories, hard wares like computer, printer etc. and required software. |
| 17. The system should have expert software for analysing the raw data and provide detailed interpretive results. |
| 18. Any software or database updates should be done free of cost by the firm, during the life of the equipment, as and when it is released by the manufacturer. |
| 19. UPS system with minimum 60 mins back-up shall also be provided. |
| 20. Company will provide 250 test of ID+AST (joined) panel as per user requirement. |
| 21. Training of laboratory personnel at time of installation. |
| 22. List of all the proprietary item should be also be enclosed. |
| 23. List of users and satisfactory report of quoted model from reputed institute preferably Government institute/ hospitals. |
| 24. Supplier must ensure local servicing agent and continuous supply of consumables |
| 25. Calibration certificate required |
| 26. At least 3 years warranty required. CMC for 5 years. |
| 27. FDA/CE/ ISI or equivalent certification is mandatory. |

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| 2. Semi automated biochemistry analyser |
| • 6 detecting wavelengths: 450,492,510,546,578,630nm |
| • Up to 70 test items |
| • Analytical modes: end-point, absorbance |
| • Large LCD. menu operation, hospital and patient information editing available |
| • Inner thermal-sensitive printer. English comprehensive report available, including refer range |
| • Memory for 10000 sample results |
| • Few reagent needing, low detecting cost. |
| • Open reagents |
| Test project :- ≥ 70 |
| Wavelength :- 450,492,510,546,578,630nm |
| Flow cell :- 32μL,quartz glass |
| Liquid volume :- 200-3000μL |
| Resolution :- 0.001Abs(display),0.0001Abs(calculation) |
| Display :- 240*64 LCD |
| Communication :- RS-232 serial cable |

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| Electricity :- | 220/110VAC±15%,50\60Hz 80W |
| Temperature :- | 15°C-30°C wet≤90% |
| Dimension(L*W*H) | :- 380mm*330mm*160mm |
| Weight :- | 7kg |

3. Chemilumin escence or Enzyme linked immunosorbent assay

Chemiluminescence Immunoassay (CLIA) and Enzyme-Linked Immunosorbent Assay (ELISA) are both immunological techniques used to detect and quantify analytes, but they differ in their detection mechanisms and sensitivity. CLIA relies on light emission from a chemical reaction, offering higher sensitivity and wider dynamic range compared to ELISA, which uses enzymatic reactions and measures optical density.

Chemiluminescence Immunoassay (CLIA):

- **Principle:** Light emission is detected through a chemical reaction, often enzyme-catalyzed or redox-mediated.
- **Enzymes:** HRP, AP, and other enzymes can be used to label antibodies.
- **Labels:** Luminol and derivatives, acridinium esters, and ruthenium complexes are examples of labels.
- **Substrates:** Various substrates, like AMPPD and luminol, are used to generate the chemiluminescent reaction.
- **Sensitivity:** CLIA offers high sensitivity, detecting very low concentrations of analytes.
- **Automation:** CLIA is often used in automated systems for high-throughput analysis.

Specifics of Enzyme-Linked Immunosorbent Assay (ELISA):

Principle: The reaction is based on enzymatic activity converting a substrate to a product, which can be detected spectrophotometrically.

- **Enzymes:** HRP, AP, and other enzymes are commonly used.
- **Labels:** Enzyme-conjugated antibodies are used to bind and label the analyte.
- **Substrates:** Various substrates, like TMB and PNPP, are used to generate a detectable signal.
- **Detection:** Absorbance or color development is measured, indicating the amount of analyte.
- **Format:** ELISA is typically performed in 96-well or 384-well microplates.

4. Electrolyte analyser

Measured Parameters:

Core Electrolytes: Sodium (Na⁺), Potassium (K⁺), Chloride (Cl⁻) are almost always included.

Additional Electrolytes: Many analyzers also measure Calcium (Ca²⁺), Ionized Calcium (iCa²⁺), Lithium (Li⁺), pH, and Total CO₂ (Bicarbonate). Some may offer Magnesium (Mg²⁺) and other parameters

Combinations: Analyzers come in various configurations, measuring from one to several parameters simultaneously

Analysis Speed: Typically ranges from 25 to 60 seconds per sample, but some high-throughput models can be faster.

Sample Volume: Usually requires a small sample volume, ranging from 60 µL to 150 µL, depending on the model and the number of parameters being measured.

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| Accuracy: High accuracy is crucial for clinical significance. Coefficient of variation (CV%) is often used to specify precision, with values typically ≤ 1.0 -1.5% for Na ⁺ , K ⁺ , and Cl ⁻ , and slightly higher for other electrolytes. Relative deviation is often within $\pm 5\%$. |
| Measuring Range: Each electrolyte will have a specific measuring range (e.g., Na ⁺ : 30-200 mmol/L, K ⁺ : 0.5-20.0 mmol/L, Cl ⁻ : 20-200 mmol/L, Ca ²⁺ : 0.2-5.0 mmol/L, pH: 4-9 pH). |
| Resolution: The smallest increment the analyzer can display (e.g., Na ⁺ : 0.1 mmol/L, K ⁺ : 0.01 mmol/L, Cl ⁻ : 0.1 mmol/L, Ca ²⁺ : 0.01 mmol/L, pH: 0.01 pH). |
| Calibration: Automatic calibration is a common feature, often with 1-point calibration per sample and 2-point calibration at regular intervals (e.g., every 4 hours). Some analyzers perform calibration after power-on or reagent changes. |
| Quality Control (QC): Tri-level QC is often supported, with storage of QC results and Levey-Jennings charts for monitoring trends. |
| Data Storage: Typically stores a significant number of patient results (e.g., 10,000 or more) and QC data. |
| Connectivity: Includes ports for external printers (often inbuilt thermal printers are also present), RS232 for LIS (Laboratory Information System) connectivity, and often USB ports for data transfer or software updates |
| User Interface: Many modern analyzers feature color touch screen displays for easy operation and data input. |
| Sample Identification: Alphanumeric sample IDs can usually be entered. |
| Reagent Management: Some systems monitor reagent levels and provide alarms. |
| Operating Conditions: Specified temperature and humidity ranges for proper operation (e.g., 15-30°C, <85% humidity). |
| Power Requirements: Typically operate on standard AC voltage (e.g., 100-240V, 50/60 Hz) with self-adjusting capabilities |
| Dimensions and Weight: Compact benchtop designs are common, with dimensions around 200-400 mm (width/depth) x 300-400 mm (height) and weights around 5-10 kg. |

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| 5. HbA1C analyser or Card based |
| Card-Based HbA1c Analyzer Specifications |
| These specifications focus on analyzers that utilize single-use or multi-test reagent cartridges or cards. |
| Test Format: Self-contained reagent cartridges or cards. |
| Methodology: Often immunoassay or boronate affinity. |
| Sample Application: Direct application of a small blood sample onto the card or into the cartridge. Minimal or no sample preparation required. |
| Calibration: Lot-specific calibration information is often encoded on the card (e.g., via a barcode or RFID chip), allowing for automatic calibration. |
| Ease of Use: Designed for simplicity, often with minimal steps and user-friendly interfaces. |
| Speed: Typically provide rapid results, often within 3-10 minutes per test. |
| Portability: Many card-based systems are designed to be portable and suitable for point-of-care settings. |
| Maintenance: Minimal maintenance is usually required as the reagents are contained within the disposable cartridge. |
| Connectivity: Often include USB for data transfer and potentially wireless connectivity. |
| Cost per Test: Usually higher than using bulk reagents on larger analyzers due to the cost of the individual cartridges. |
| Number of Tests per Card/Cartridge: Can be single-test or multi-test (e.g., 10-50 |

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| tests per pack). |
| Storage Conditions for Cards/Cartridges: Typically require storage at specific temperatures (e.g., 2-8°C or room temperature) and have a limited shelf life. |

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| 6. Urine Analyser |
| The device should work on reflection photometer to evaluate the color intensity of each test zone |
| The device should have three wavelengths viz 470 nm, 540 nm and 650 nm |
| The device should have through put of around 60 samples /hr in standard mode & 240 sample/hr in quick mode. |
| The device should have memory capacity for 400 measurement with all details like date by date and sample ID. |
| The device should give results in combination of arbitrary & SI or conventional & arbitrary units. |
| The device should have portable mode with standard batteries. |
| The device should have alphanumeric data entry facility. |
| The device should have strip position check system and automatic dry strip detection. |
| The device should provide bi-level (position and negative) ready to use liquid stable urine controls. |
| The device system should measure Blood, Bilirubin, Urobilinogen, Ketone, Protein Glucose, pH, Nitrite, Leucocytes, specific gravity and micro albumin, creatine. |
| The unit will automatically measure Microalbumin to creatine ratio (ACR). |
| Each 10-para urine strip will have compensation pad for suppressing dark color urine sample |
| The device should have flexibility to run 2, 4 and 10 parameter strips |
| All diagnostic strip pads will not interfere with the common concentration of the ascorbic acid. |
| The device should provide tri- level grey control strips for instrument QC |
| Instrument will be touch screen with color LCD display (320 x 240 pixels). |
| The device should have built in printing capability. |
| The device should have option to connect to bar code reader/keyboard via USB port. |
| The device should be CE Certified. |
| The device should have external ports RS 232 and also 1 USB port for LIS connection. |
| Power supply: 90-230 V: 50-60 Hz |

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| 7. Fully automated biochemistry analyser |
| 1) Fully Automated, Floor Based Random Access Clinical Chemistry Analyzer with STAT Capability & ISE based capable of performing all types of routine and special Biochemistry, Immunoturbidometry assay with high accuracy and precision. |
| 2) Should be able to analyze Serum, Plasma, Urine, CSF, Whole blood and other Body fluids. |
| 3) High throughput, more than 600 tests per hour with ISE and 375 photometric tests / hour. Technical specification: Fully Automated Biochemistry Analyzer |
| 4) Analytical Principles - Spectrophotometry and Potentiometry. |

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| 5) 7) Sample handling at a time 100-120 with continuous loading & unloading. |
| 6) Facility for running STAT Sample. |
| 7) Sample Volume: 1.0 L -65 uL with 0.1 ul increments. |
| 8) Analyzer should have a minimum reading volume of 180 uL. |
| 9) Analyzer should have more than 60 permanent glass cuvettes. |
| 10) Sample tubes- Primary tubes 5-10 ml |
| 11) On board reagent storage. |
| 12) Wavelength: Monochromatic and Bichromatic measurement, preferably to have 212 or more photometric wavelength (ranging from 340 to 800 nm) 340, 376, 415, 450, 480, 505, 546, 570, 600,660,700, 750n.m 800 n.m. |
| 13) Number of on board parameters above 50 or more. |
| 14) Sample Bar Code detection system |
| 15) Sample clot detection and short sample detections. Haemolysis, icteric, lipaemic interferences in sample to be minimized. |
| 16) Water bath/shielded water bath in case of wet chemistry and disposable tips in case of dry chemistry. |
| 17) Calibration: At time of installation of instrument as well as anytime in emergency |
| 18) System should have on board data storage for 20,000-30,000 samples. |
| 19) Should be supported by suitable de-ionised water system. |
| 20) Power supply- 200 - 240 V/ 47- 63Hz. |
| 21) Should be compatible with our in house hospital information system (HMIS)with facility of bidirectional connectivity / transfer of datas. |
| 22) The item should be supplied with one suitable stabilizer (5 KV) and online UPS (2KVA) having a backup facility of not less than 60 minutes. |
| 23) Valid FDA/CE/IVD Certificate for In-vitro diagnostic application. Copy of the certificate/test report to be produced along with the equipment. |

Group D Specifications:

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| 1. Landline Phones |
| Basic Functionality: |
| Line Compatibility: Designed for standard analog Public Switched Telephone Network (PSTN) lines, which are still prevalent in many parts of India. |
| Dialing Method: Tone (DTMF - Dual-Tone Multi-Frequency) dialing is standard. Pulse dialing is an older method and less common now. |
| Wireless Technology: |
| DECT (Digital Enhanced Cordless Telecommunications): The most common standard, offering good range, security, and voice quality. Often operates on the 1.88-1.90 GHz frequency band in India. |
| Caller ID (CID): Displays the caller's phone number (and sometimes name if the service is supported and the information is available). Compatibility with the local telecom provider's Caller ID system is crucial. |
| Call Waiting: Allows you to answer another incoming call while putting the current call on hold. |
| Phonebook/Directory: Memory to store frequently dialed numbers with associated names. Capacity can vary from a few to hundreds of entries. |
| Redial: Quickly redials the last dialed number. |
| Flash Button: Used to access call waiting or other network services. |
| Mute: Temporarily disables the microphone. |

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| Volume Control: Adjustment for the earpiece, speakerphone, and ringer. |
| Ringer Melodies: Choice of different ringtones. |
| Speakerphone: Allows hands-free conversation. |
| Answering Machine (Integrated): Some models have a built-in answering machine to record incoming messages when you can't answer. |
| Recording Time: The total duration of messages that can be stored (e.g., 15-60 minutes). |
| Message Playback Features: Skip, delete, repeat messages. |
| Remote Access: Ability to check messages remotely from another phone. |
| Handset Dimensions and Weight (Cordless): Size and weight for comfortable handling. |
| Base Unit Dimensions and Weight: Size and weight of the base station. |
| Keypad: Layout and size of the buttons. Some may have larger buttons for easier dialing. |
| Build Quality and Materials: Durability of the phone. |

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| 2. Cleaning Material Set |
| Brooms: |
| Various types of brooms, including hard bristled brooms for outdoor or rough surfaces, soft brooms for dusting, and wall brooms with long handles for reaching high areas. |
| Dustpans: |
| Designed to collect swept debris, often with a soft rubber lip for a tight seal on the floor, says SUNKI. |
| Mops: |
| Flat mops for cleaning floors, scrub mops for more challenging dirt, and specialized mops for specific surfaces like windows or ceilings, says Indus Brooks. |
| Wipers: |
| For cleaning glass, mirrors, and other smooth surfaces, says Vimal Industries. |
| Brushes: |
| Various sizes and types for cleaning different areas and objects, including scrub brushes for stubborn stains and specialized brushes for electronics or upholstery. |

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| 3. IEC Posters |
| Topic/Subject Matter: The core message or theme of the poster. This will heavily influence the content, visuals, and language used. |

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| Target Audience: Who the poster is intended for (e.g., specific age groups, communities, professionals). The language, imagery, and complexity should be tailored to this audience. |
| Purpose/Objective: What the poster aims to achieve (e.g., raise awareness, provide information, change behavior, promote services). The design and content should be aligned with this objective. |
| Key Message(s): The main point(s) the poster needs to convey. These should be clear, concise, and easy to understand. |
| Visual Elements: |
| <ul style="list-style-type: none"> • Images/Illustrations/Graphics: Should be relevant, engaging, and culturally appropriate for the target audience. Consider the style, size, and placement of visuals. |
| <ul style="list-style-type: none"> • Color Palette: Colors should be visually appealing, attention-grabbing, and appropriate for the message. Consider cultural connotations of colors. |
| <ul style="list-style-type: none"> • Typography: Font style, size, and color should be legible from a distance and easy to read for the target audience. Consider using a clear and appropriate typeface. |
| Layout and Design: The overall arrangement of text and visuals should be balanced, organized, and visually appealing to draw the viewer's attention and guide them through the information. |
| Text Content: |
| <ul style="list-style-type: none"> • Language: Should be in a language understood by the target audience, using clear and simple terminology, especially if it's for the general public. |
| <ul style="list-style-type: none"> • Amount of Text: Keep text concise and to the point. Too much text can be overwhelming. Use headings, bullet points, and short paragraphs to break up information. |
| Accuracy: Ensure all information presented is factually correct and up-to-date. |
| Size and Dimensions: The physical size of the poster will depend on where it will be displayed. Common sizes include A1, A2, A3, and banner sizes. |
| Material: The type of paper or material used will affect its durability and suitability for the intended environment (indoor vs. outdoor). Options include paper (various weights and finishes), vinyl, and synthetic materials. |
| Printing Quality: Resolution, color accuracy, and overall print finish are important for visual impact and legibility. |
| Branding/Logo (if applicable): Inclusion and placement of organizational logos or branding elements. |
| Call to Action (if applicable): What you want the viewer to do after seeing the poster (e.g., seek more information, visit a website, adopt a behavior). This should be clear and prominent. |
| Durability and Longevity: Consider how long the poster needs to last and choose materials and printing methods accordingly. |
| Cost: Budget constraints will influence choices regarding size, materials, printing quality, and quantity. |
| Layout and Design: The overall arrangement of text and visuals should be balanced, organized, and visually appealing to draw the viewer's attention and guide them through the information. |
| Text Content: |
| Language: Should be in a language understood by the target audience, using clear and simple terminology, especially if it's for the general public. |

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| Amount of Text: Keep text concise and to the point. Too much text can be overwhelming. Use headings, bullet points, and short paragraphs to break up information. |
| Accuracy: Ensure all information presented is factually correct and up-to-date. |
| Size and Dimensions: The physical size of the poster will depend on where it will be displayed. Common sizes include A1, A2, A3, and banner sizes. |
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| Durability and Longevity: Consider how long the poster needs to last and choose materials and printing methods accordingly. |
| Cost: Budget constraints will influence choices regarding size, materials, printing quality, and quantity. |

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| 4. Sanitizer Stand with Bottle |
| <ul style="list-style-type: none"> Sanitizer Stand Specifications: |
| <ul style="list-style-type: none"> Material: |
| <ul style="list-style-type: none"> Frame: Common materials include stainless steel (durable, easy to clean, rust-resistant), powder-coated steel (durable, various color options), aluminum (lightweight, rust-resistant), and sometimes even sturdy plastics. The material will affect the stand's durability, weight, and appearance. |
| <ul style="list-style-type: none"> Base: Often made of the same material as the frame or a heavier material for stability (e.g., weighted steel). Some may have rubber or non-slip pads on the bottom to prevent movement and protect floors. |
| <ul style="list-style-type: none"> Height: Typically ranges from around 40 inches (100 cm) to 50 inches (127 cm) to be easily accessible for most adults without bending. Countertop versions will be much shorter. |
| <ul style="list-style-type: none"> Base Type and Size: |
| <ul style="list-style-type: none"> Round Base: Offers a sleek look but might be less stable on uneven surfaces. |
| <ul style="list-style-type: none"> Square Base: Generally provides good stability. |
| <ul style="list-style-type: none"> Tripod Base: Can be stable but might have a larger footprint. |
| <ul style="list-style-type: none"> Portability: Some stands are designed to be easily moved, possibly with a lighter weight or even wheels. |
| <ul style="list-style-type: none"> Finish: The surface treatment of the stand's material (e.g., brushed stainless steel, matte black powder coat). This affects the appearance and can influence resistance to scratches and fingerprints. |
| <ul style="list-style-type: none"> Durability: Ability to withstand regular use and potential bumps or spills. |
| <ul style="list-style-type: none"> Ease of Assembly: How easy it is to put the stand together, if required. |
| <ul style="list-style-type: none"> Weight: The overall weight of the stand, which affects stability and portability. |

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| <ul style="list-style-type: none"> Indoor/Outdoor Use: Some stands are designed for outdoor use and may have weather-resistant materials. |
| <ul style="list-style-type: none"> Sanitizer Bottle Specifications |
| <ul style="list-style-type: none"> Pump: Most common for hand sanitizers, dispensing a measured amount with each press. The pump mechanism's quality and durability are important. |
| <ul style="list-style-type: none"> Touchless/Automatic: Uses a sensor to dispense sanitizer when a hand is placed underneath. These require a power source (batteries or AC adapter). |
| <ul style="list-style-type: none"> Spray: Dispenses a fine mist of sanitizer. |
| <ul style="list-style-type: none"> Capacity: The volume of sanitizer the bottle can hold, typically measured in milliliters (mL) or ounces (oz). Common sizes range from 500 mL to 1 liter or more for stand-mounted dispensers. |
| <ul style="list-style-type: none"> Material: Usually made of durable plastic (like HDPE or PET) that is compatible with alcohol-based sanitizers. |
| <ul style="list-style-type: none"> Color: Often clear or translucent to easily see the sanitizer level, but can come in various colors. |
| <ul style="list-style-type: none"> Refill Mechanism: How the bottle is refilled (e.g., screw-off cap, proprietary refill system). |
| <ul style="list-style-type: none"> Compatibility with Sanitizer Type: Ensure the bottle and dispenser are suitable for the type of sanitizer being used (gel, liquid, foam). |

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| 5. Blankets |
| <ul style="list-style-type: none"> Material: This significantly impacts the blanket's warmth, softness, weight, care, and price. Common materials include: |
| <ul style="list-style-type: none"> Cotton: Breathable, soft, and easy to care for. Different types like organic cotton or long-staple cotton offer varying levels of softness and durability. |
| <ul style="list-style-type: none"> Wool: Excellent insulator, warm even when damp, naturally flame-resistant. Types include merino, lambswool, and cashmere, each with different levels of softness and cost. |
| <ul style="list-style-type: none"> Fleece (Polyester): Soft, lightweight, warm, and affordable. Different types like microfleece and polar fleece offer varying levels of thickness and warmth. |
| <ul style="list-style-type: none"> Down: Lightweight and incredibly warm, made from the soft under feathers of ducks or geese. Often used in comforters but also in some blankets. |
| <ul style="list-style-type: none"> Synthetic Blends: Combinations of different fibers (e.g., cotton-polyester) to achieve specific properties like wrinkle resistance or enhanced softness. |
| <ul style="list-style-type: none"> Bamboo: Soft, breathable, and often considered eco-friendly. |
| <ul style="list-style-type: none"> Linen: Lightweight and breathable, often used for warmer weather blankets. |
| <ul style="list-style-type: none"> Size: Blankets come in standard bed sizes (Twin, Full/Double, Queen, King, California King) and smaller throw sizes. Dimensions are usually specified in inches or centimeters. |
| <ul style="list-style-type: none"> Weight: Affects how heavy and warm the blanket feels. Weight can be described in pounds or grams. For weighted blankets, the weight is a key specification. |
| <ul style="list-style-type: none"> GSM (Grams per Square Meter): Often used for fleece and some other fabrics to indicate the density and weight of the material. Higher GSM generally means a denser and warmer fabric. |

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| 6. Floor Mats |
| <ul style="list-style-type: none"> Material: This is a crucial factor and varies greatly depending on the intended use. Common materials include: |
| <ul style="list-style-type: none"> Rubber: Durable, water-resistant, easy to clean, good for heavy traffic areas and vehicles. |
| <ul style="list-style-type: none"> PVC (Polyvinyl Chloride): Similar to rubber, often used for car mats and some indoor mats. |
| <ul style="list-style-type: none"> Polypropylene/Olefin: Synthetic fibers that are stain-resistant and relatively inexpensive, often used for indoor and outdoor mats. |
| <ul style="list-style-type: none"> Nylon: Durable and resilient synthetic fiber, often used for carpeted mats in homes and vehicles. |
| <ul style="list-style-type: none"> Coir (Coconut Fiber): Natural fiber, rough texture good for scraping dirt, often used for entrance mats. |
| <ul style="list-style-type: none"> Jute: Natural fiber, softer than coir, used for some indoor mats. |
| <ul style="list-style-type: none"> Microfiber: Highly absorbent, often used for bathroom and kitchen mats. |
| <ul style="list-style-type: none"> Memory Foam: Provides cushioning and anti-fatigue properties, used in kitchen and standing desk mats. |
| <ul style="list-style-type: none"> Size and Shape: Floormats come in a wide range of sizes and shapes (rectangular, square, oval, custom-fit for vehicles). Dimensions are usually specified in inches or centimeters. |
| <ul style="list-style-type: none"> Thickness: Affects comfort, durability, and how easily doors can clear the mat. |
| <ul style="list-style-type: none"> Weight: Can indicate the density and quality of the materials. Heavier mats often stay in place better. |
| <ul style="list-style-type: none"> Backing: The material on the underside of the mat. Common types include: |
| <ul style="list-style-type: none"> Rubber or PVC nibs/cleats: Provide grip to prevent slipping on hard floors. |
| <ul style="list-style-type: none"> Smooth rubber or PVC: Can also be non-slip. |
| <ul style="list-style-type: none"> Felt or foam: Provides cushioning and can protect floors. |
| <ul style="list-style-type: none"> Pile Height (for carpeted mats): The length of the fibers, affecting the look and feel. |
| <ul style="list-style-type: none"> Water Resistance/Absorption: Important for areas prone to moisture like entrances, bathrooms, and kitchens. |
| <ul style="list-style-type: none"> Rubber or PVC nibs/cleats: Provide grip to prevent slipping on hard floors. |
| <ul style="list-style-type: none"> Smooth rubber or PVC: Can also be non-slip. |
| <ul style="list-style-type: none"> Felt or foam: Provides cushioning and can protect floors. |
| <ul style="list-style-type: none"> Pile Height (for carpeted mats): The length of the fibers, affecting the look and feel. |
| <ul style="list-style-type: none"> Water Resistance/Absorption: Important for areas prone to moisture like entrances, bathrooms, and kitchens. |
| <ul style="list-style-type: none"> Stain Resistance: A key feature for high-traffic areas and kitchens. |
| <ul style="list-style-type: none"> Durability: The ability to withstand wear and tear from foot traffic or other use. |
| <ul style="list-style-type: none"> Ease of Cleaning: How easy it is to vacuum, shake out, or wash the mat. |
| <ul style="list-style-type: none"> Design and Color: Aesthetic features that match the surrounding decor. |
| <ul style="list-style-type: none"> Special Features: Some mats have additional features like: |
| <ul style="list-style-type: none"> Anti-fatigue properties: For standing for long periods. |

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| • Anti-static properties: For sensitive electronic environments. |
| • UV resistance: For outdoor mats to prevent fading. |
| • Flame retardancy: For safety in certain commercial settings. |
| • Environmental Certifications: Some mats are made from recycled materials or have eco-friendly certifications |

7. Towels Large

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| • Material: Affects softness, absorbency, drying time, and durability. |
| • GSM: Indicates the towel's weight and density. Higher GSM generally means a thicker, more absorbent, and softer towel. |
| • Construction: Look for features like looped or twisted yarns, and single-ply or two-ply construction, which influence the towel's feel and durability. |
| • Size Preference: Consider how much coverage you prefer when drying off. |
| • Care Instructions: Check if the towel is machine washable and how to best maintain its quality. |

8. Bucket & Mug Set

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| Bucket Specifications: |
| • Material: <ul style="list-style-type: none"> ◦ Plastic: Most common (e.g., Polypropylene (PP), High-Density Polyethylene (HDPE)). Specify the type of plastic if important for durability or food safety. ◦ Metal: Less common for general household use but might exist (e.g., galvanized steel for industrial use). |
| • Capacity: Measured in liters (L) or gallons (gal). Common sizes range from a few liters up to 10-20 liters or more. |
| • Dimensions: <ul style="list-style-type: none"> ◦ Top Diameter: The width of the bucket opening. ◦ Diameter: The width of the base. ◦ Height: The vertical measurement of the bucket (without the handle). |
| • Handle: <ul style="list-style-type: none"> ◦ Material: Usually plastic or metal (often with a plastic grip). Type: ◦ Fixed or pivoting. |
| • Ergonomics: Design for comfortable carrying. 70" x 70" inches: A larger size that generally fits tables between 46 and 58 inches, seating up to 8 people. 52" x 70": Designed for smaller table sizes that usually accommodate |
| Mug Specifications: |
| • Material: <ul style="list-style-type: none"> ◦ Plastic: Similar types as buckets (PP, HDPE), Melamine. Specify if BPA-free. ◦ Ceramic: Earthenware, stoneware, porcelain. ◦ Metal: Stainless steel, aluminum (can be insulated). |

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| <ul style="list-style-type: none"> Capacity: Measured in milliliters (ml) or ounces (oz). Common sizes range from around 200 ml (8 oz) to 500 ml (17 oz) or more. |
| <ul style="list-style-type: none"> Dimensions: <ul style="list-style-type: none"> Top Diameter: The width of the mug opening. Bottom Diameter: The width of the base. Height: The vertical measurement of the mug. |
| <ul style="list-style-type: none"> Handle: <ul style="list-style-type: none"> Material: Same as the mug or different (e.g., ceramic mug with a metal handle). Shape and Size: Ergonomic design for comfortable grip (e.g., C- handle, D-handle). |
| <ul style="list-style-type: none"> Weight (Empty): The weight of the mug itself. |

9. Table Cloth

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| <ul style="list-style-type: none"> Length: Add twice the desired drop to the table length. (Table Length + [2 x Drop Length] = Tablecloth Length). |
| <ul style="list-style-type: none"> Width: Add twice the desired drop to the table width. (Table Width + [2 x Drop Length] = Tablecloth Width). |
| <ul style="list-style-type: none"> Square Tables <ul style="list-style-type: none"> 52" x 52" inches: Ideal for small square tables between 28 and 40 inches, seating 4 people. 70" x 70" inches: A larger size that generally fits tables between 46 and 58 inches, seating up to 8 people. |
| <ul style="list-style-type: none"> Rectangular/Oval Tables <ul style="list-style-type: none"> 52" x 70": Designed for smaller table sizes that usually accommodate 4–6 people. 60" x 84": Fits standard 6-foot tables, seating 6–8 people. 60" x 104": Suitable for 8-foot tables, accommodating 8–10 people. 60" x 120": Ideal for longer tables seating 10–12 people. |

10. Hospital Elevator (2 Floor)

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| 1. Capacity and Size: |
| <ul style="list-style-type: none"> Load Capacity: <p>A hospital elevator designed for patient transport should have a minimum load capacity of 1275 kg, 1000 kg, or even 630/800 kg for smaller healthcare facilities, ensuring wheelchair accessibility and adequate space for a patient and companion.</p> |
| <ul style="list-style-type: none"> Car Size: <p>The car should have a minimum floor area of 2000mm wide by 1400mm deep, with a clear door opening width of 1100mm, or a 900mm opening for smaller facilities.</p> |
| <ul style="list-style-type: none"> Door Width: <p>Door widths of 1100mm or 900mm should be considered to accommodate wheelchairs.</p> |
| 2. Speed: |
| <ul style="list-style-type: none"> Speed: Elevator speed can range from 0.5 m/sec to 1.0 m/sec. |
| 3. Safety Features: |

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| • Overload Device: An overload device is crucial to prevent accidents. |
| • Emergency Stop: Emergency stop buttons should be readily available inside the car and in landings. |
| • Fire Safety: Features like a fireman's switch and automatic rescue devices are important for fire safety. |
| • Automatic Door Operation: Automatic doors are essential for safety and convenience. |
| Drive System: |
| • Drive Technology: Consider options like V3F drive, which can offer energy efficiency and smooth operation. |
| • Machine Room: Machine room-less (MRL) or small machine room configurations are common. |
| • Speed: 1.75 m/s |
| • Max. travel: 75 m |
| • Max. load: 1768 kg |
| • Max. persons: Up to 26 |
| • Specialized car design: Designed for beds and medical equipment |
| • Wide opening doors: For easy entry and exit |

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| 11. RO Water Plant 50 Litrs |
| Purification Capacity: 50 liters per hour (+/- a small variation). |
| Maximum Duty Cycle: Typically around 500 liters per day. |
| Purification Technology: Reverse Osmosis (RO). |
| Purification Stages: Usually includes multiple stages such as: |
| • Pre-filter (Sediment filter): To remove larger particles like sand, silt, and dirt. |
| • Activated Carbon filter: To remove chlorine, organic impurities, and improve taste and odor. |
| • RO Membrane: The core component that removes dissolved salts, heavy metals, bacteria, viruses, and other contaminants. |
| • Post-Carbon filter: For final polishing of the water, further improving taste and odor. |
| • Some systems may include additional stages like a UV disinfection chamber or a TDS (Total Dissolved Solids) controller. |
| TDS Rejection Rate: Up to 90-95%, depending on the quality of the membrane and the input water. |
| Input Water TDS Level: Can typically handle input water with TDS levels up to 2000 PPM (parts per million), but this can vary by model. |
| Recovery Rate: The percentage of treated water produced compared to the input water. This is typically around 25-40% and depends on various factors like input water quality and system design. |
| Pump: High-pressure pump to force water through the RO membrane. |
| Motor Rating: Typically around 1 HP (minimum), but can vary. |

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| Operating Voltage: Usually 24V or 48V DC, with an AC input of 160-300V (50 Hz). |
| Material of Construction: Often a stainless steel body for durability. Some may use FRP (Fiberglass Reinforced Plastic). |
| Operating Temperature: Suitable for input water temperatures between 5°C and 50°C. |
| <ul style="list-style-type: none"> Storage Tank: Some 50 LPH plants come with an attached storage tank, while others are designed for direct supply to water coolers or dispensing units. Tank capacity can vary (e.g., 7 liters or more). |
| <ul style="list-style-type: none"> UV Disinfection: A UV lamp to kill any remaining bacteria and viruses in the purified water. |
| <ul style="list-style-type: none"> TDS Controller/Adjuster: To adjust the mineral content and taste of the purified water. |
| <ul style="list-style-type: none"> UF (Ultrafiltration) Membrane: An additional filtration stage for finer removal of suspended solids and microbes. |
| <ul style="list-style-type: none"> Low-Pressure Switch (LPS): To protect the pump in case of low or no input water supply. |
| <ul style="list-style-type: none"> High-Pressure Switch (HPS): For safety and to shut off the system when the storage tank is full (if applicable). |
| <ul style="list-style-type: none"> Indicators: To show the operational status of the plant. |
| Dimensions and Weight: |
| <ul style="list-style-type: none"> Dimensions will vary depending on the design and included components. |
| <ul style="list-style-type: none"> Net weight is typically around 20-25 kg without a storage tank. |
| Power Consumption: |
| <ul style="list-style-type: none"> Around 48W to 150-300W, depending on the pump and other electrical components. |

12. Hospital Laundry Washing Machine

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| Type: Typically industrial or commercial-grade, front-loading washing machines. |
| Capacity: Ranges widely, from around 15 kg (33 lbs) to over 100 kg (220 lbs) per cycle, depending on the hospital's size and laundry volume. Common sizes include 20kg, 30kg, 50kg, and 75kg. |
| Drum Material: High-grade stainless steel (AISI 304 or higher) to withstand harsh chemicals and frequent use, and to prevent corrosion. |
| Outer Casing: Usually made of stainless steel or robust powder-coated steel for durability and hygiene. |
| Control System: Microprocessor-based programmable controls with multiple pre- |

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| set cycles designed for hospital linen (e.g., heavily soiled, delicate, thermal disinfection). These allow for precise control of water temperature, wash time, spin speed, and chemical dispensing. |
| Heating: Electric or steam heating options are common to achieve the high temperatures required for disinfection. Electric heating elements are typically high wattage for rapid heating. |
| Water Supply: Hot and cold water inlets are standard to allow for temperature-controlled washing. |
| Drainage: Large diameter drain valves for quick and efficient water removal. Often includes multiple drain options. |
| Door Seal: Heavy-duty, chemical-resistant seals to prevent leaks. Often designed with multiple lips for enhanced sealing. |
| Safety Features: Emergency stop button, door interlock (prevents opening during operation), overload protection for the motor, and high-temperature safety cut-offs. |
| Noise Level: Designed to operate at relatively low noise levels for a comfortable working environment. |
| Water Consumption: Optimized water usage per cycle to minimize costs. Modern machines often feature water level sensors and automatic adjustment. |
| Automatic Weighing System: To automatically determine the load weight and adjust water and chemical usage accordingly. |
| Connectivity: Some advanced machines may offer network connectivity for remote monitoring, data logging, and diagnostics. |
| Barrier Washer Design: For critical areas like operating theaters and isolation wards, barrier washers are used. These have separate loading and unloading doors on opposite sides of a wall to prevent cross-contamination between soiled and clean laundry areas. |
| Ozone Disinfection: Some machines may integrate ozone disinfection systems for enhanced sanitization. |
| Steam Injection: For specific disinfection protocols and stain removal. |
| Self-Cleaning Programs: To maintain hygiene and prevent residue buildup within the machine. |
| Installation Requirements: |
| Floor Mounting: Typically require a solid, level floor capable of supporting the machine's weight and vibrations. |
| Electrical Connection: High voltage electrical connections are needed, with appropriate safety circuits. |
| Water Connections: Hot and cold water supply lines with adequate pressure. |
| Drainage Connection: Connection to a suitable drainage system capable of handling large volumes of water. |
| Ventilation: Adequate ventilation in the laundry room to manage heat and humidity |

13. Meeting Hall Plastic Chairs (Neelkamal)

Material: High-quality, durable polypropylene (PP) plastic. Some models might incorporate other materials like metal frames or cushioning.

Design: Typically designed for comfortable seating for extended periods. This can include features like contoured backs and sometimes armrests.

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| Stackability: Many models are designed to be stackable for easy storage and space-saving when not in use in a meeting hall. The number of chairs that can be stacked varies by model (e.g., 4 to 15 chairs high). |
| Weight Capacity: Generally designed to support a substantial weight, often in the range of 100 kg to 150 kg or more. |
| Leg Design: Usually feature a sturdy four-leg design for stability. Some may have variations in leg material or design for aesthetic purposes or added strength. |
| Armrests: Available in models with and without armrests, depending on the comfort and space requirements of the meeting hall. Armrests can provide additional support. |
| Color Options: Neelkamal offers a wide range of color options to suit the aesthetics of different meeting halls (e.g., black, brown, grey, blue, maroon, beige). |
| Maintenance: Easy to clean and maintain, usually requiring just wiping with a damp cloth. |
| Durability: Designed to be durable and long-lasting, suitable for the frequent use in a meeting hall environment. |
| Weather Resistance: Some models may be suitable for both indoor and covered outdoor areas. |

14. Door Locks

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| Material: Mazak steel, stainless steel, brass, zinc alloy. |
| Finish: Antique brass, satin nickel, silver, black, chrome, polished. |
| Lever: Typically 6 levers for enhanced security. |
| Door Thickness: Suitable for doors ranging from 25-45 mm, 30-70 mm. |
| Keys: Usually come with 3-4 mechanical keys. Some advanced models have computerized keys with millions of combinations. |
| Features: May include reversible latch bolts, double throw deadbolts, anti-bend cover rings, anti-break armored plates. |

15. Hot Water Dispenser

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| <ul style="list-style-type: none"> Type: Countertop, freestanding, or wall-mounted. Countertop models are the most common for home and office use. |
| <ul style="list-style-type: none"> Capacity: Refers to the volume of water the dispenser can hold and heat. Common capacities range from: <ul style="list-style-type: none"> Small: 1.5 liters to 3 liters (suitable for personal or small office use) Medium: 3 liters to 5 liters (suitable for small to medium offices or families) Large: 5 liters and above (suitable for larger offices or commercial settings) |
| <ul style="list-style-type: none"> Heating Power: Measured in Watts (W). Higher wattage generally means faster heating time. Typical ranges: <ul style="list-style-type: none"> Small: 700W - 1000W Medium: 1000W - 1500W Large: 1500W - 2500W or more |
| <ul style="list-style-type: none"> Temperature Control: |
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| Fixed Temperature: Some basic models heat water to a pre-set temperature (usually around 85-95°C). |
| Variable Temperature Control: More advanced models allow you to select specific temperature settings for different needs (e.g., 40°C for warm water, 80°C for green tea, 90°C for coffee, 95°C for instant noodles). |
| Dispensing Mechanism: |
| Push Button: Requires pressing a button to dispense water. |
| Lever/Tap: Uses a lever or tap to control the flow of water. |
| Touch Panel: Modern dispensers may have touch-sensitive controls. |
| Safety Features: |
| Boil-Dry Protection: Automatically shuts off the heating element if there is no water in the tank to prevent damage. |
| Overheat Protection: Prevents the water from overheating beyond a safe limit. |
| Child Lock: Prevents accidental dispensing of hot water, especially important for households with young children. |
| Cool Touch Exterior: The outer body remains relatively cool to the touch even when the water inside is hot. |
| Material: |
| Inner Tank: Typically made of food-grade stainless steel for hygiene and durability. |
| Outer Body: Usually made of plastic (ABS, PP) or sometimes stainless steel. |
| Power Supply: Typically operates on standard AC power (e.g., 220-240V, 50/60Hz). |
| Additional Features (depending on the model): |
| Water Level Indicator: Allows you to easily see the amount of water in the tank. |
| Keep Warm Function: Maintains the water at a set temperature after heating. |
| Filter: Some dispensers include a built-in filter (e.g., activated carbon filter) to improve water quality and taste. |
| Instantaneous Heating: Some advanced models heat water on demand, eliminating the need for a storage tank and providing hot water almost instantly. |
| Multiple Dispensing Options: May offer different cup sizes or continuous dispensing. |
| Digital Display: Shows the current water temperature or selected settings. |
| Timer Function: Allows you to set a time for the water to be heated. |
| Self-Cleaning Function: Simplifies maintenance. |
| Indicator Lights: Show power status, heating status, and water level. |
| Detachable Water Tank: For easy refilling and cleaning. |
| Dimensions and Weight: |
| These will vary significantly based on the capacity and design of the dispenser. Refer to the specific product details. |
| Power Consumption: |
| While heating, the power consumption will be as per the heating power rating (e.g., 1500W). Some models have lower power consumption in "keep warm" mode. |

16. Hot Water Geyser 15 Ltrs Capacity

Type: Storage Water Heater (Geyser)

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| Capacity: 15 Liters |
| Mounting Type: Typically Vertical, but some horizontal models are also available. Choose based on your bathroom space. |
| Inner Tank Material: |
| <ul style="list-style-type: none"> Stainless Steel: Common for good durability and rust resistance. Higher grades like 304 are preferred. Mild Steel with Anti-Rust Coating: Some brands use this with special coatings like glass lining, vitreous enamel, or polymer coating to prevent corrosion. |
| Outer Body Material: Usually Metal (CRCA steel with powder coating) or ABS plastic. |
| Heating Element: |
| <ul style="list-style-type: none"> Copper: Offers good heat transfer and corrosion resistance. Incoloy 800: A high-grade alloy known for its resistance to oxidation and high-temperature corrosion, suitable for hard water. Glass-Coated: Helps prevent scale formation, especially in hard water areas. |
| Power Consumption: Typically ranges from 2000 Watts (2 kW) to 3000 Watts (3 kW) for faster heating. |
| Operating Voltage: 230V AC, 50 Hz (standard in India). |
| Pressure Rating: Usually 6.5 bar to 8 bar, suitable for high-rise buildings and pressure pump applications. Check if it meets the water pressure requirements in your area in Machilipatnam. |
| Temperature Control: Adjustable thermostat with a temperature range typically between 25°C to 75°C. |
| Heating Time: Varies depending on the model and initial water temperature, but generally takes around 10 to 20 minutes to heat the water to a usable temperature. |
| Energy Efficiency: Look for BEE (Bureau of Energy Efficiency) star ratings (4 or 5 stars are better for energy savings). |
| Dimensions and Weight: |
| <ul style="list-style-type: none"> Dimensions vary by brand and model. Typically, a 15-liter vertical geyser might have a height of around 40-55 cm, a width and depth of around 30-40 cm. Weight also varies but is generally in the range of 7-12 kg (empty). |

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| 17. Stainless Steel Food Trolley (20 Members Capacity) |
| <ul style="list-style-type: none"> Capacity: Designed to hold and transport food for approximately 20 people in a single trip. This translates to a certain number and size of food containers (GN pans, trays, bowls). Material: High-grade stainless steel (typically SS 202 or SS 304). SS 304 offers better corrosion resistance and is preferred for food-grade applications, especially in humid environments like Machilipatnam. Frame Construction: Robust welded or bolted frame made of stainless steel square or round tubes for strength and stability. |
| Shelves/Levels: Multiple tiers or shelves to accommodate different food items and quantities. The number of shelves can range from 2 to 4 or more, with adequate vertical clearance between them (e.g., 300-450 mm). |
| Shelf Design: |
| Flat Shelves: Simple and versatile for holding various containers. May have raised edges to prevent items from sliding off. |

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| GN Pan Compatible Shelves: Designed with runners or supports to securely hold Gastronorm (GN) pans of various sizes (e.g., GN 1/1, GN 1/2, GN 1/3). |
| Tray Slides: Angled supports to hold serving trays. |
| Mobility: Equipped with high-quality, heavy-duty swivel castors (usually 4 or more) for smooth and easy maneuverability. At least two castors should have brakes to secure the trolley in place. |
| Castor Material: Typically made of rubber, polyurethane, or nylon to minimize noise and protect flooring. Diameter usually ranges from 100 mm to 150 mm, depending on the load capacity. |
| Push Handles: Ergonomically designed stainless steel handles on one or both ends for comfortable pushing and pulling. |
| Bumpers: Protective non-marking bumpers (rubber or plastic) around the edges to prevent damage to walls and the trolley itself. |
| Hygiene: Smooth, seamless surfaces and rounded corners for easy cleaning and sanitation, crucial for food service environments. |
| Capacity Specific Specifications (for 20 Members): |
| GN Pan Capacity (Example): Could be designed to hold around 4-6 full-size GN 1/1 pans or a combination of smaller GN pans across multiple shelves. The exact configuration depends on the intended menu. |
| Tray Capacity (Example): If designed for individual trays, it might accommodate 15-20 standard-sized serving trays. |
| Overall Dimensions (Approximate): These will vary greatly based on the shelf configuration and pan/tray capacity. However, expect something in the range of: |
| Length: 1200 mm - 1800 mm |
| Width: 600 mm - 800 mm |
| Height: 1200 mm - 1600 mm |
| Weight Capacity: The trolley should have a robust weight capacity to safely carry food for 20 members, potentially ranging from 100 kg to 200 kg or more, depending on the food volume and container weight. |

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| 18. Venesection tray & All Needles & Forceps (Set) |
| Venesection Tray Specifications: |
| <ul style="list-style-type: none"> Material: <ul style="list-style-type: none"> Stainless Steel: Preferred for its durability, ease of sterilization, and resistance to corrosion. Often made of surgical-grade stainless steel. Plastic (Medical Grade): Lightweight, easy to clean, and may be single-use or autoclavable depending on the type of plastic. Examples include polypropylene or high-density polyethylene. Shape: Usually rectangular or kidney-shaped (emesis basin style) to keep instruments organized and prevent rolling. Size: Dimensions vary, but a common size might be around 20 cm x 30 cm (8 inches x 12 inches) to comfortably hold the necessary items without being too bulky. Depth: Typically shallow, around 2-5 cm (1-2 inches), for easy access to the contents. Edges: Smooth, rounded edges for safety and ease of handling. Compartments/Divisions: Some trays may have built-in compartments or can accommodate insertable organizers to keep different items separate and prevent contamination. Sterilization: Must be autoclavable (if reusable) or provided sterile (if disposable). Stainless steel trays are designed for repeated autoclaving. Labeling Area: May have a designated area for labeling with patient information or date/time. |
| Needles (Set - Specifications will vary depending on the specific needs and standard practices, but a common set might include a variety of sizes): |

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| <ul style="list-style-type: none"> Types: Typically includes different gauge sizes of hypodermic needles for venipuncture. Common gauges range from 16G to 25G. Butterfly needles (winged infusion sets) of various gauges (often 21G to 25G) might also be included for more fragile veins or patient comfort. |
| <ul style="list-style-type: none"> Gauge (G): Indicates the needle's inner diameter. A smaller gauge number indicates a larger bore. <ul style="list-style-type: none"> 16G - 18G: Used for blood donation or rapid collection of large volumes. Less common for routine venesection. 20G - 22G: Commonly used for routine venesection in adults. 23G - 25G: Used for small or fragile veins, elderly patients, or children. Butterfly needles often fall in this range. |
| <ul style="list-style-type: none"> Length: Needle length varies depending on the vein depth and patient. Common lengths range from 1 inch to 1.5 inches for standard venesection needles and 0.5 to 0.75 inches for butterfly needles. |
| <ul style="list-style-type: none"> Material: Stainless steel, siliconized for smooth insertion. |
| <ul style="list-style-type: none"> Hub Type: May have Luer lock or slip-tip hubs to connect to syringes or vacuum tube holders. Butterfly needles have flexible wings and a small tube with a Luer adapter. |
| <ul style="list-style-type: none"> Sterility: Must be sterile and individually packaged. |
| <ul style="list-style-type: none"> Safety Features: Many modern venesection needles incorporate safety mechanisms (e.g., retractable needles, protective shields) to prevent needlestick injuries. |
| Forceps (Set - Typically one or two types for different purposes): |
| <ul style="list-style-type: none"> Artery Forceps (Hemostatic Forceps): Used to clamp blood vessels to stop bleeding. <ul style="list-style-type: none"> Material: Stainless steel, often surgical grade. Type: Straight or curved jaws. Serrated jaws for a firm grip. May have a locking mechanism (ratchet) to maintain pressure. Common lengths range from 12.5 cm to 16 cm (5 to 6.5 inches). |
| <ul style="list-style-type: none"> Tissue Forceps: Used for grasping and manipulating tissues. Less commonly included in a basic venesection tray but might be present in more comprehensive sets. <ul style="list-style-type: none"> Material: Stainless steel, often surgical grade. |
| <ul style="list-style-type: none"> Type: Toothed or non-toothed tips for different tissue types. May also have a locking mechanism. Common lengths vary. |

19. Stainless Steel Food Trolley (10 Members Capacity)

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| <ul style="list-style-type: none"> Capacity: Designed to hold and transport food for approximately 10 people in a single trip. This translates to a specific number and size of food containers (GN pans, trays, bowls). |
| <ul style="list-style-type: none"> Material: High-grade stainless steel (typically SS 202 or SS 304). SS 304 offers better corrosion resistance and is preferred for food-grade applications, especially in the potentially humid climate of Machilipatnam. |

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| <ul style="list-style-type: none"> • Frame Construction: Robust welded or bolted frame made of stainless steel square or round tubes for strength and stability. |
| <ul style="list-style-type: none"> • Shelves/Levels: Typically 2 to 3 tiers or shelves to accommodate different food items and quantities. Adequate vertical clearance between shelves (e.g., 300-400 mm). |
| <ul style="list-style-type: none"> • Shelf Design: |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> ◦ Flat Shelves: Simple and versatile for holding various containers. May have raised edges to prevent items from sliding off. |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> ◦ GN Pan Compatible Shelves: Designed with runners or supports to securely hold Gastronorm (GN) pans of various sizes (e.g., GN 1/1, GN 1/2, GN 1/3). |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> ◦ Tray Slides: Angled supports to hold serving trays. |
| <ul style="list-style-type: none"> • Mobility: Equipped with high-quality swivel castors (usually 4) for smooth and easy maneuverability. At least two castors should have brakes to secure the trolley in place. |
| <ul style="list-style-type: none"> • Castor Material: Typically made of rubber, polyurethane, or nylon to minimize noise and protect flooring. Diameter usually ranges from 100 mm to 125 mm, depending on the load capacity. |
| <ul style="list-style-type: none"> • Push Handles: Ergonomically designed stainless steel handles on one or both ends for comfortable pushing and pulling. |
| <ul style="list-style-type: none"> • Bumpers: Protective non-marking bumpers (rubber or plastic) around the edges to prevent damage to walls and the trolley itself. |
| <ul style="list-style-type: none"> • Hygiene: Smooth, seamless surfaces and rounded corners for easy cleaning and sanitation, crucial for food service environments. |
| Capacity Specific Specifications (for 10 Members): |
| <ul style="list-style-type: none"> • GN Pan Capacity (Example): Could be designed to hold around 2-4 full-size GN 1/1 pans or a combination of smaller GN pans across multiple shelves. The exact configuration depends on the intended menu. |
| <ul style="list-style-type: none"> • Tray Capacity (Example): If designed for individual trays, it might accommodate 8-12 standard-sized serving trays. |
| <ul style="list-style-type: none"> • Overall Dimensions (Approximate): These will vary based on the shelf configuration and pan/tray capacity. However, expect something in the range |
| of: |
| Length: 900 mm - 1400 mm |
| Width: 500 mm - 700 mm |
| Height: 900 mm - 1300 mm |
| <ul style="list-style-type: none"> • Weight Capacity: The trolley should have a robust weight capacity to safely carry food for 10 members, potentially ranging from 50 kg to 100 kg or more, depending on the food volume and container weight. |

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| 20. Stainless Steel Vessels Induction Base (All Sizes Set) |
| Material: High-quality stainless steel, typically grades like SS 201, SS 304 (18/8), or SS 430. |
| <ul style="list-style-type: none"> SS 304 (18/8): Contains 18% chromium and 8% nickel, offering excellent corrosion resistance and is food-grade. It's generally preferred for long-lasting quality. |
| <ul style="list-style-type: none"> SS 201: A more economical grade with good corrosion resistance but slightly less than SS 304. |
| <ul style="list-style-type: none"> SS 430: Magnetic stainless steel, essential for induction compatibility. Often used for the base layer in multi-ply construction. |
| Construction: |
| <ul style="list-style-type: none"> Single-Ply with Induction Base: The main body of the vessel is a single layer of stainless steel, with a ferromagnetic (usually SS 430) disc or layer bonded to the bottom to make it induction-compatible. |
| <ul style="list-style-type: none"> Multi-Ply (Clad): Can also have an induction base as part of its multi-layered construction. This often involves layers of stainless steel sandwiching a core of aluminum or copper for even heat distribution. The outermost bottom layer would be magnetic stainless steel for induction. |
| Induction Base: A layer or disc of ferromagnetic stainless steel (SS 430 or similar) bonded to the bottom of the vessel. This allows the cookware to work efficiently on induction cooktops by creating an electromagnetic field. The base should be flat and make good contact with the induction surface. |
| Finish: Typically polished (mirror finish) or brushed (satin finish) on the exterior. The interior may also be polished or have a matte finish. |
| Handles: |
| <ul style="list-style-type: none"> Material: Stainless steel, often hollow or with a silicone grip for better heat resistance. |
| <ul style="list-style-type: none"> Attachment: Riveted or welded for durability. Welded handles are smoother and easier to clean. |
| <ul style="list-style-type: none"> Design: Ergonomic for comfortable and safe handling. Some may have a hanging loop for storage. |
| Lids (if included): |
| <ul style="list-style-type: none"> Material: Tempered glass with a stainless steel rim or entirely stainless steel. Glass lids allow you to monitor cooking without lifting the lid. |
| <ul style="list-style-type: none"> Features: May have a steam vent to prevent pressure build-up. Handles usually match the vessel handles. |

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| 21. Stainless Steel Plates and Glasses Set |
| Stainless Steel Plates Specifications: |
| <ul style="list-style-type: none"> Material: High-quality stainless steel, typically grades like SS 201, SS 304 (18/8), or SS 410/430. |
| SS 304 (18/8): Offers excellent corrosion resistance and is food-grade, making it a preferred choice for durability and hygiene. |
| SS 201: A more economical option with good corrosion resistance. |
| SS 410/430: Magnetic stainless steel, which might be used, but SS 304 is generally considered superior for food contact due to its better resistance to rust and staining. |
| <ul style="list-style-type: none"> Gauge/Thickness: Typically ranges from 0.5 mm to 1.0 mm. Thicker gauges are more durable and less prone to denting. |

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| <ul style="list-style-type: none"> • Sizes (Diameter): Sets usually include a variety of sizes to cater to different courses or serving portions. Common sizes include: |
| Dinner Plates: 25 cm - 30 cm (10 inches - 12 inches) |
| Quarter Plates/Side Plates: 18 cm - 20 cm (7 inches - 8 inches) |
| Small Plates/Dessert Plates: 15 cm - 18 cm (6 inches - 7 inches) |
| <ul style="list-style-type: none"> • Shape: Most commonly round, but square or oval shapes are also available. |
| <ul style="list-style-type: none"> • Design/Style: |
| Plain/Simple: Classic, functional design. |
| Hammered/Textured: Adds visual appeal and can help prevent slipping. |
| With Rims: Raised edges to contain food and liquids. |
| Compartmentalized: Divided sections for serving different food items separately (common in mess hall or thali sets). |
| <ul style="list-style-type: none"> • Finish: |
| Mirror Finish: Shiny and reflective. |
| Matte/Brushed Finish: Less reflective and can hide minor scratches better. |
| <ul style="list-style-type: none"> • Edges: Smooth, rolled edges for safety and comfortable handling. |
| <ul style="list-style-type: none"> • Weight: Lightweight to moderately heavy depending on the size and thickness. |
| <ul style="list-style-type: none"> • Durability: Highly durable, resistant to breaking, chipping, and staining. |
| <ul style="list-style-type: none"> • Hygiene: Non-porous and easy to clean and sanitize. Dishwasher safe. |
| Stainless Steel Glasses (Tumblers) Specifications: |
| <ul style="list-style-type: none"> • Material: Same stainless steel grades as plates (SS 201, SS 304, or SS 410/430). SS 304 is again preferred for its superior corrosion resistance. |
| <ul style="list-style-type: none"> • Capacity: Sets typically include glasses of varying capacities: |
| Small: 200 ml - 250 ml (for water, juice) |
| Medium: 300 ml - 350 ml (for beverages) |
| Large: 400 ml or more (for larger drinks) |
| <ul style="list-style-type: none"> • Height: Varies with capacity, typically ranging from 8 cm to 12 cm. |
| <ul style="list-style-type: none"> • Diameter (Top): Typically 7 cm to 9 cm. |
| <ul style="list-style-type: none"> • Shape: Cylindrical, slightly tapered, or with a wider base for stability. |
| <ul style="list-style-type: none"> • Wall Thickness: Affects durability and temperature retention (though stainless steel isn't the best insulator). |
| <ul style="list-style-type: none"> • Finish: |
| Mirror Finish: Shiny interior and exterior. |
| Matte/Brushed Finish: Less reflective. |
| Hammered/Textured: For better grip and aesthetics. |

22. Electric Rice Cooker 5 Ltrs

Capacity:

- 5 liters (This typically refers to the total volume of the inner pot).
- Can cook approximately 1 to 1.5 kg of raw rice, yielding about 8-10 servings of cooked rice. Some models specify the capacity in terms of uncooked rice cups (e.g., 10 cups of raw rice).

Power:

- Power consumption usually ranges from 450W to 900W, depending on the model and brand. Higher wattage generally means faster cooking.

Inner Pot Material:

- Most common materials include aluminum with a non-stick coating (Teflon or ceramic) for easy cleaning. Some higher-end models may feature multi-layered ceramic coatings for enhanced durability and even heating.

Functions:

- **Cook:** The primary function to cook rice.

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| <ul style="list-style-type: none"> • Keep Warm: Automatically switches on after cooking is complete to keep the rice warm for an extended period (typically several hours). |
| <ul style="list-style-type: none"> • Steaming: Many models come with a separate steaming basket, allowing you to steam vegetables, fish, or other foods while the rice cooks below. |
| <ul style="list-style-type: none"> • Preset Cooking Programs: Some advanced models offer various preset programs for different types of rice (white, brown, mixed grain, quinoa), porridge, oatmeal, or even for sautéing before cooking. |
| <ul style="list-style-type: none"> • Delay Start Timer: Allows you to set a time for cooking to begin, so your rice is ready exactly when you need it. |
| <ul style="list-style-type: none"> • Automatic Shut-Off: For safety, the cooker automatically turns off once the cooking cycle is finished. |
| Features: |
| <ul style="list-style-type: none"> • Lid: Usually includes a secure lid with a steam vent to release excess steam during cooking. Some lids are made of stainless steel. |
| <ul style="list-style-type: none"> • Control Panel: Can be a simple on/off switch with indicator lights (cook/warm) or a digital display with touch buttons for selecting cooking modes and setting timers. |
| <ul style="list-style-type: none"> • Handles: Some models have cool-touch handles for easy and safe lifting and carrying. |
| <ul style="list-style-type: none"> • Accessories: Typically includes a measuring cup for rice and water, and a rice spatula or spoon. Some may also include a soup spoon and a steam tray. |
| <ul style="list-style-type: none"> • Safety Features: May include features like overheat protection. |
| <ul style="list-style-type: none"> • Outer Body Material: Often made of plastic, stainless steel, or a combination of both. |
| <ul style="list-style-type: none"> • Easy to Clean: Removable inner pot and non-stick coating make cleaning straightforward. |
| Dimensions and Weight: |
| <ul style="list-style-type: none"> • These will vary depending on the specific model and brand. |
| Warranty: |
| <ul style="list-style-type: none"> • Typically comes with a 1 or 2-year warranty. Some brands might offer a longer warranty on specific components like the heating plate. |

23. Hot Water Geyser 25 Ltrs Capacity

1.High heating efficiency :-

Equipped with powerful heating elements, these electric water geysers ensure quick and efficient water heating, reducing waiting time.

2.Advanced safety features :-

Includes thermal cut-off, pressure release valves, and anti- corrosion coatings to ensure safe and reliable operation

3.Energy efficiency :-

Designed to consume less electricity while providing optimal heating. These geysers help reduce energy consumption and lower electricity bills.

4.Large capacity :-

The 25 Litre capacity is ideal for families, providing sufficient hot water for multiple showers or household tasks.

5.Durable construction:-

Built with high -quality materials to ensure long-lasting performance. These geysers are designed to withstand regular use and maintain their efficiency over time.

6.User-friendly controls:-

Easy-to-use control panels allow you to set the desired temperature and monitor the heating process conveniently.

Specifications for Group E Items:

1. Dhroni with Stand Specifications**A. Dhroni Specifications:**

Heavy duty extra wide fiberglass Dharapathi.

Made with superior NPG- ISO quality FRP resin.

Has double reinforcement to carry any weight.

Filled with polyurethane foam (PUF) to resist impacts during handling/ transportation / shipping.

Cm: 290 x 90 x 13 (Approx.)

Inch: 114 x 36 x 5 (Approx.)

B. Dhroni Stand Specifications:

Simple & efficient mechanism to raise & lower the table to near ground level.

Allow oiled patients who are fat / have large body frame to climb up & get down from the dharapathi safely & effortlessly without the help of an assistant.

All types of dharapathi can be placed on this table.

Tilt Model: Enables tilting of the head-end & legend for Shirodhara / Anjana / Pizhichil / Sarvangadhara procedures.

2. Electrical Steam Generators

Fully automatic Electric Boiler (FAB) of 3 KW rating.

Made of Stainless Steel (SS–304 grade) with an integral Alarm Warning System

which switches off the Boiler if the water level inside goes down to prevent Heater damage.

Can be connected to water line to allow automatic intake of water when required.

A Perfume box is provided to insert herbs inside the boiler, to produce herbal steam bath.

Fully insulated to avoid heat loss and save electric energy.

All the fittings' bolts & nuts are of SS or Brass to resist corrosion.

Comes with Digital temp. controller (DTC) which is optional.

A wheeled trolley is provided for mobility in Export quality.

Cm: 62 x 42 x 40 (Approx.)

Inch: 24 x 17 x 16 (Approx.)

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| 3. Sarwanga Sweda Yantra |
| Bed is made of teakwood / medicinal wood. |
| Provided with powder coated steel frame & 2-piece bed. |
| Chamber is made in translucent / opaque heat-resistant fiberglass. |
| Patient can be transferred to the bed from the sides by lifting-up the FRP cabin. |
| Provided with stainless steel tube steam release system. |
| FRP condensate tray & foldable headrest are also provided. |
| Digital temperature controller is optional |
| Cm: 210 x 78 x 90 (Approx.) |
| Inch: 83 x 31 x 35 (Approx.) |

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| 4. Dhara Stand |
| Consists of a traditional handmade white bronze vessel with an attached heating coil & an energy controller. |
| Provides a steady flow of shirodhara oil at constant heat. |
| Consumes very low electrical power. |
| Can be used with any steel / wooden shirodhara stand. |

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| 5. Bhaspa Sweda Yantra |
| Heavy duty 4 doors wooden steam chamber. |
| Made from medicinal woods / anjali. |
| Provided with copper tube steam release system. |
| Copper steam pipe & brass fittings are provided. |
| Standard Model: Inner Composite panelling & height adjustable seat are provided |

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| Export Model: Fiber inner shell with molded non-slip flooring & height adjustable bench (with Stainless steel supports) are provided. This shell protects the wood from steam & sweat and maintains a hygienic surface without any crevices or sharp corners where bacteria/ fungus may lodge. |
| Digital temperature controller |
| Cm: 90 x 82 x 137 (Approx.) |
| Inch: 35 x 32 x 54 (Approx.) |

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| 6. Sthanik Swedana Yantra |
| This is a stainless steel (superior SS-304 grade- for use with Herbs) boiler of 2 KW capacity, with fully insulated double shell body (in Export quality) |
| Electronic level sensing system (ELSS) puts off the boiler & sounds alarm when water level reaches the heating coil, to avoid dry heating and damage of the element. When water is re-filled boiler starts heating. |
| Perfume box, control box, droplet remover (all of Stainless steel), stand, ball valve steam control, Baumer pressure gauge, German thermostat, safety valve, Neoprene 'O' ring are provided. |
| Supplied with Gas Burner, Gas Fittings, Stand and special Steam Hose. |
| Standard Model: Provided with Un insulated body. |
| Cm: 36 x 40 x 72 (Approx.) |
| Inch: 14 x 16 x 28 (Approx.) |

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| 7. Nasya Chair |
| This is a fully reclining chair with adjustable head rest, for Nasya & Anjana treatments as well. |
| It can also be used as a lounge chair. |
| The back rest and seat have teakwood/medicinal wood members. |
| The frame can be of PC (powder coated) steel or stainless steel (SS). |
| A new model with raisable leg support is also available for performing foot massage during Nasya Karma. |
| Cm: 102 x 64 x 90 (Approx.) |
| Inch: 40 x 25 x 35 (Approx.) |

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| 8. Cooking Ware |
| Utensils set for Panchakarma procedures. Most of these are made of white bronze metal, hand casted in traditional shapes and designs. Available in 3 sets. |

The common items in these 3 sets are dhara-Kindi with handle, Thannikinnam, Oil bowl, Bowl with handle, Thavi, Mortar & Pestle, Lotta, Polished Varpu(5"), Nasya Yanthram, Incense burner, Nilavilakku (lamp) 12", Polished Uruli (3"), Unpolished Uruli(12" dia), Dhooma Nethram etc, Porcelain Mortar (Large, Medium & Small), SS nasya yanthram, Jug (SS), Vasti Nethram & Mathra Vasti Yantram, Shalaka, Mathra vasti yantram, Niruha vasti kit, Vasti nethram, Utthar basti yantram, Polished warp (9"), Brass spoon, Dhara Kindi (Big) and Nasya yanthram (big) , Dhanvantri statue, Jug (Copper)

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| 9. Dhara Paatra |
| FRP Vessels are very strong, lightweight & easy to clean. |
| These are economical vessels that last a lifetime. |
| The wood design vessels are made in teakwood / rosewood / junglewood shades to match the dhroni or steam chamber. |
| Provided with stainless steel chains in plain design model & brass chains in wood design model. |

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| 10. Vamana Peeta |
| This is designed for executing Vamanam procedure comfortably. |
| The chair is designed to be stable in the inclined sitting position. |
| Made of Stainless (SS) or Powder coated Steel (PC). |
| Height of the basin is adjustable in SS model. |
| Transparent measuring jar, trays for BP apparatus and tray for cup (in SS model) and cushions on seat and back (in SS model) are provided. |
| Fitted with wheels for mobility. Brakes are provided on wheels for arresting movement. |
| Cushion seat & back for PC model |
| Cm: 90 x 90 x 80 (Approx.) |
| Inch: 35 x 35 x 31 (Approx.) |

Specifications for Group F items; Physiotherapy Equipment

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| 1. Treadmill |
| <ul style="list-style-type: none">• Powerful, Quiet Motor & Spacious, Joint-Friendly Running Surface: Experience consistent and quiet workouts with a 4 HP peak DC motor (under 68dB) and a speed range of 1-12kmhp. Enjoy comfortable and unrestricted training on the 1100x400mm running surface, enhanced by a state-of-the-art shock absorption system. |
| <ul style="list-style-type: none">• Comprehensive Workout Tracking & Versatile Programming: Monitor your progress with the LED display, tracking speed, time, distance, calories, and pulse rate. Utilize 12 preset programs and customizable settings to achieve your fitness goals. |
| <ul style="list-style-type: none">• Convenient Foldability, Integrated Entertainment & Smooth Operation: Easily fold and store the treadmill with the Hydraulic Soft Drop System and manual lock, optimizing space utilization. Enjoy your favorite music or videos with the AUX input, built-in speakers, and mobile/tablet holder. Precision-machined, steel-crowned rollers ensure smooth, quiet, and durable operation, enhancing your overall workout experience. |
| <ul style="list-style-type: none">• With a maximum user weight capacity of 110 kg,PowerMax Treadmill accommodates various users For enhanced longevity and performance, Powermax recommends factoring in an additional 30KG buffer for Running Consider your weight as a reference point for selecting the treadmill's capacity For example, if your weight is 80 kg or less, a 110 kg max capacity treadmill is suitable for Running |
| <ul style="list-style-type: none">• Advanced Running Belt & Deck for Enhanced Performance & Comfort: Benefit from a durable 1.8mm thick 6-ply running belt with anti-skid texture and PVC non-slip surface, providing excellent traction and rebound resilience. The 18mm thick running deck, with a pre-waxed phenolic coating, ensures a smooth and natural grass-like running experience, minimizing impact and maximizing comfort. |

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| 2. LASER Therapy Equipment |
| <ul style="list-style-type: none"> • Laser type – Semiconductor laser – Ga Al As |
| <ul style="list-style-type: none"> • Laser probe – 810nm – 300 mW pointed (module) 650nm – 40mW pointed (module) 650nm – 200mW cluster (diode) |
| <ul style="list-style-type: none"> • Treatment time – 0 – 60 mins |
| <ul style="list-style-type: none"> • Laser classification– Class 3B according to IEC – 60825 – 1 |

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| 3. Traction unit along with lumbar and cervical belts |
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| Traction Unit Specifications: |
| Traction Force: Adjustable, often from 5-90 kg, with increments of 1 kg or 10 N. |
| Traction Mode: Static and intermittent, with adjustable hold and rest times. |
| Treatment Time: Typically, adjustable from 1 to 99 minutes. |
| Traction Speed: May offer multiple speed settings, allowing for a gentle and progressive application of force. |
| Safety Features: Often include patient safety switches and alarms. |
| Display: Digital or LCD displays to show traction force, time, and other parameters. |
| Belts: |
| Lumbar Belt: Used to secure the patient's pelvis and lower back, ensuring a proper and comfortable pull during lumbar traction. |
| Cervical Belt (Head Holder): Used to gently pull on the patient's head, creating space between the vertebrae in the neck. |

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| 4. Transcutaneous electrical nerve stimulation along with wires and electrodes | |
| <ul style="list-style-type: none"> • Frequency: | <p>The number of electrical pulses per second, typically ranging from 1 to 200 Hz. Low frequencies (1-5 Hz) can induce muscle contractions, while high frequencies (90-130 Hz) can produce a tingling sensation without muscle contractions, according to Physiopedia and StatPearls.</p> |
| <ul style="list-style-type: none"> • Intensity: | <p>The strength of the electrical pulse, measured in milliamperes (mA). Low intensity is often used for high-frequency TENS, while high intensity is used for low-frequency TENS.</p> |
| <ul style="list-style-type: none"> • Pulse Width: | <p>The duration of each electrical pulse, typically measured in microseconds</p> |
| | <p>(μs). Pulse width can be adjusted to optimize the stimulation effect.</p> |
| <ul style="list-style-type: none"> • Pulse Type: | <p>The pattern of the electrical pulses, which can be continuous or in bursts.</p> |
| <ul style="list-style-type: none"> • Treatment Time: | <p>The duration of each TENS session, which can range from 30 minutes to several hours, depending on the type of TENS and the desired effect.</p> |

5. Ultrasound therapy along with probes

Probe/Transducer Specifications:

- Frequency:

Typically 1 MHz or 3 MHz, with 1 MHz providing deeper penetration and 3 MHz targeting more superficial tissues.

- Effective Radiation Area (ERA):

This defines the cross-sectional area of the ultrasound beam, and is crucial for determining the appropriate probe size for the treatment area.

- Pulse Mode:

Pulsed mode can be set to different duty cycles (e.g., 10%, 20%, 50%) which determines the ratio of pulse duration to pulse repetition time.

- Pulse Frequency:

This refers to the number of pulses emitted per second, often 100 Hz.

- Intensity:

Measured in W/cm^2 , this is the power delivered by the ultrasound beam and is typically adjustable within a range (e.g., 0.1 - 3 W/cm^2).

Therapy Specifications:

- Mode:

Ultrasound can be applied in continuous or pulsed mode, with continuous mode at 100% duty cycle.

- Timer:

Most ultrasound therapy machines have a timer for precise treatment duration (e.g., 1-99 minutes).

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| <ul style="list-style-type: none"> • Display: LCD displays provide information about parameters like frequency, intensity, and treatment time. |
| <ul style="list-style-type: none"> • Safety: Ultrasound therapy is generally safe, but precautions are taken to avoid use over the spine, eyes, pregnant uterus, or areas with active infections. |

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| 6 .Electrical stimulation along with wires and electrodes |
| Electrodes: |
| <ul style="list-style-type: none"> • Materials: Common materials include stainless steel, noble metals (like platinum), and carbon. |
| <ul style="list-style-type: none"> • Size and Shape: Smaller electrodes are generally used for more precise stimulation, while larger electrodes are better for larger muscle groups. |
| <ul style="list-style-type: none"> • Impedance: Low impedance is preferred for efficient current delivery and to minimize voltage drop. |
| <ul style="list-style-type: none"> • Polarization: Non-polarizable electrodes are preferred to avoid changes in the stimulation environment. |
| <ul style="list-style-type: none"> • Surface Electrodes: These are commonly used for transcutaneous stimulation (TENS) and often feature conductive adhesives for easy application and removal. . |
| <ul style="list-style-type: none"> • Microelectrodes: Used for in vitro and in vivo studies, these are typically made of insulated wires (e.g., tungsten, iridium) and have diameters ranging from 2.5 to 150 μm. |
| Wires: |
| Material: <ul style="list-style-type: none"> • Common materials include copper and other conductive metals, often |

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| insulated for safety. |
| Gauge and Length: <ul style="list-style-type: none"> Wires are selected based on the current requirements and the distance between the electrodes and the stimulation device. |
| Connectors: <ul style="list-style-type: none"> Appropriate connectors ensure secure and reliable connections between the electrodes and the wires, and between the wires and the stimulation device. |
| Parameters: Frequency (Hz): <ul style="list-style-type: none"> The number of pulses per second, affecting the type of stimulation (e.g., low frequency for muscle contraction, high frequency for pain relief). |
| Pulse Duration (ms): <ul style="list-style-type: none"> The length of each pulse, also influencing the stimulation type and effect. |
| Amplitude (mA): <ul style="list-style-type: none"> The intensity of the current, directly impacting the strength of the stimulus. |
| Current Density: <ul style="list-style-type: none"> The amount of current per unit area, important for comfort and safety. |
| On/Off Time Ratio: <ul style="list-style-type: none"> Determines the duration of stimulation and rest periods, affecting muscle fatigue and tolerance. |
| Ramp Time: <ul style="list-style-type: none"> The time it takes for the current to reach its peak intensity, allowing the body to adapt to the stimulus |

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| 7. Infra-red radiation therapy |
| <ul style="list-style-type: none"> Infrared (IR) radiation therapy involves using infrared light to heat tissues and promote healing. |
| <ul style="list-style-type: none"> It's categorized into near-IR (0.7-1.4 μm), mid-IR (1.4-3.0 μm), and far-IR (3.0-100 μm) based on wavelength. |
| <ul style="list-style-type: none"> Therapeutic applications often utilize near-IR due to its ability to penetrate tissues and stimulate biological processes. |

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| 8. Interferential therapy along with the wires and electrodes |
| <ul style="list-style-type: none"> • Electrodes: |
| <ul style="list-style-type: none"> • Shape: Square or round pads with adhesive backing or suction cups. |
| <ul style="list-style-type: none"> • Material: Generally made of a conductive material like metal or gel. |
| <ul style="list-style-type: none"> • Size: Various sizes are available, with larger electrodes minimizing patient discomfort and smaller, closely spaced electrodes increasing the risk of skin irritation. |
| <ul style="list-style-type: none"> • Attachment: Adhesive backing for easy application or suction cups for larger areas like the shoulder girdle or trunk. |
| <ul style="list-style-type: none"> • Cleaning: Regular cleaning and maintenance are important to ensure effective conductivity and prevent infection risks. |

Specifications for Group G Items: Surgical Items

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| 1.OT Table |
| 1. The Operation Table should necessarily have all movements electro-hydraulically operated. |
| 2. High storage capacity batteries housed within the table base or column capable of approx. |
| 3. Should have at least two days of operation per single charge. |
| 4. Complete return to 'O' position must be possible by pressing one button on the corded hand control. |
| 5. Base of table should be made of robust stainless steel, resistant to impact, fracture, and disinfectants, grey-dyed with scratch resistant coat. |
| 6. Table should have column casing and base cover made of stainless steel. |

| |
|---|
| 2.OT Light |
| <ul style="list-style-type: none"> • Intensity: Modern OT lights aim for high illumination, typically reaching 160,000 lux or more at a standard distance. |
| <ul style="list-style-type: none"> • Light Field Diameter: Adjustable light field diameters allow surgeons to tailor the illumination to the specific area of interest. |
| <ul style="list-style-type: none"> • Color Temperature: A color temperature of around 4000-5000 Kelvin (similar to daylight) is often preferred for accurate tissue visualization and |

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| reduced eye strain. |
| <ul style="list-style-type: none"> • Color Rendering Index (CRI): A high CRI (above 90) ensures accurate color representation of tissues and materials. |

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| 3. Instruments for labour and episiotomy (scissors, forceps, needle holders and the like) |
| <ul style="list-style-type: none"> • Episiotomy Scissors: Designed for controlled incisions in the perineum during episiotomies, they come in straight or curved styles for different approaches. |
| <ul style="list-style-type: none"> • Needle Holders (Needle Drivers): Used to hold and manipulate needles during suturing to repair tears and incisions. |
| <ul style="list-style-type: none"> • Hemostatic Forceps: Used to control bleeding by clamping blood vessels and holding tissues. |
| <ul style="list-style-type: none"> • Sponge-Holding Forceps: Used to hold and manipulate sponges or other materials during procedures. |
| <ul style="list-style-type: none"> • Umbilical Cord Scissors: Specifically designed for cutting the umbilical cord after birth. |
| <ul style="list-style-type: none"> • Forceps (various types): Can be used for grasping, retracting, or stabilizing tissues, and may have teeth for specific tissue types. |

| |
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| 4.Fumigator (Dhoopan Yantra) |
| <ul style="list-style-type: none"> • Heating Device: Generates heat to produce the smoke or fumes from the dhoopana dravya. |

| |
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| <ul style="list-style-type: none"> • Container: Holds the dhoopana dravya, such as herbs, powders, or other substances. |
| <ul style="list-style-type: none"> • Connecting Pipe: Transfers the generated smoke/fumes from the device to the intended area, often a tube with a heat-resistant tip for ear or wound fumigation. |
| <ul style="list-style-type: none"> • Valve/Pressure Control: Allows for adjustment of the pressure and flow of the fumes. |
| <ul style="list-style-type: none"> • Modern Enhancements: Some devices include features like customizable airflow, ergonomic handles, and efficient ash collection. |
| <ul style="list-style-type: none"> • Materials: Dhoopan yantras can be made from various materials, including stainless steel, copper, or other heat-resistant materials. |

| |
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| 5. Lithotomy Table |
| <ul style="list-style-type: none"> • Height adjustable top with key wheels on each leg to lock firmly into place. |
| <ul style="list-style-type: none"> • High quality 304 grade stainless steel frame. |
| <ul style="list-style-type: none"> • Smooth stainless top with cutout. |
| <ul style="list-style-type: none"> • Rails to 3 sides to reinforce stability. |
| <ul style="list-style-type: none"> • Large wheels, 2 locking. |

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| 6. Kshara Sutra Cabinet |
| Stored threads are sterilized after each opening of the door. (Automatic Model) |
| Pre-set drying temperature for each of the 8 stages |
| Storage cabinet with additional sterilizer for dried threads is provided. |
| Application tray with brush is provided. |
| Cm: 46 x 36 x 61 (Approx.) |
| Inch: 18 x 14 x 24 (Approx.) |

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| 7. Shadowless lamp |
| 1) Technical Specifications: shadowless Lamp Ceiling (Single Dome): |
| <ul style="list-style-type: none"> • The unit should be Ceiling Shadowless OT Light with Single Dome. |
| <ul style="list-style-type: none"> • Should have Dia 700-800mm with 6-8 Reflectors. |
| <ul style="list-style-type: none"> • Operation Reflector Lamp offers the illumination comparable to other standard |

| |
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| models. |
| • Halogen Lights should be suitable for Major as well as Minor Surgery. |
| • The unit should have fully spring balanced cool lights. |
| • Sterilizable handle should be provided. |
| • Should facilitate to adjust the focus Parabolic reflectors & colour correcting filters. |
| • Light Intensity should be 1 mt : 90,000 Lux. |
| • Height Adjustment: 700-750 mm. |
| • Parabolic Reflector: 180 mm Colour Temperature: 4200 K \pm 300 Temp rise in field: 3° - 4° C Control Unit: Transformer. |

Specifications for Group H items

| |
|---|
| 1. Generator |
| Electrical Specifications: |
| Rated Power (Output): Measured in Watts (W) or Kilowatts (kW). This indicates the continuous power the generator can supply. |
| Starting Watts (Surge Watts): The maximum power the generator can briefly supply to start motors and inductive loads. This is always higher than the rated watts. |
| Voltage: Typically single-phase (230V in India) or three-phase (415V in India) AC output. Some portable units may also offer DC output |
| Frequency: Standard is 50 Hz in India. |
| Current: Maximum current output in Amperes (A) at the rated voltage. |
| Power Factor: For AC generators, it's the ratio of real power to apparent power (typically around 0.8 for non-inverter types, close to 1 for inverters). |
| Engine Specifications: |
| Engine Type: Usually a 4-stroke, air-cooled (for smaller units) or liquid-cooled (for larger units) internal combustion engine. |
| Engine Displacement: Measured in cubic centimeters (cc) or liters (L). Generally, a larger displacement engine can produce more power. |
| RPM (Revolutions Per Minute): The operating speed of the engine (e.g., 3000 RPM for 2-pole generators, 1500 RPM for 4-pole generators, variable for inverter types). |
| Fuel Tank Capacity: Measured in liters (L). Determines the runtime of the generator on a single tank. |
| Fuel Consumption: Measured in liters per hour (L/hr) at various load levels (e.g., 25%, 50%, 75%, 100% load). |
| Oil Capacity: The amount of engine oil required. |
| Lubrication System: Typically splash or pressure lubrication. |

| |
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| 2. CC Cameras with DVR Box |
| CC Camera Specifications: |
| Sensor Type |
| Sensor Size: Expressed in inches (e.g., 1/2.8", 1/3", 1/4"). Larger sensors generally capture more light and have better low-light performance and wider dynamic range. |
| Resolution: Measured in megapixels (MP) or TV Lines (TVL) for analog cameras. Higher resolution means more detail in the image. Common resolutions include: |
| Analog: 720 TVL, 960 TVL |
| Digital (IP): 1MP (720p), 2MP (1080p/Full HD), 4MP (2K), 5MP, 8MP (4K), and higher. |
| Motion Detection: Ability to detect movement within the camera's field of view and trigger recording or alerts. |
| Tampering Detection: Can detect if the camera is being obstructed or moved. |
| Frame Rate: Measured in frames per second (fps). Higher frame rates result in smoother video. Common frame rates include 15fps, 25fps, 30fps. |
| Video Compression: The method used to reduce the file size of the video stream. Common codecs include H.264, H.265 (HEVC), and MJPEG. H.265 offers better compression efficiency. |
| DVR (Digital Video Recorder) Box Specifications: |
| Number of Channels: The number of cameras the DVR can connect to (e.g., 4-channel, 8-channel, 16-channel, 32-channel, etc.). |
| HDMI: For high-definition video output to a monitor or TV. |
| VGA: Older analog video output. |
| CVBS (BNC): Analog video output for a secondary monitor. |
| Number of SATA Ports: The number of internal hard drive bays (e.g., 1, 2, 4). |
| Maximum HDD Capacity: The maximum storage capacity supported per hard drive bay (e.g., 6TB, 8TB, 10TB or more per bay). |
| Storage Management: Overwriting old footage when the hard drive is full (FIFO - First In, First Out). |
| Network Protocols: TCP/IP, DHCP, DDNS, HTTP, etc. |
| Remote Access: Ability to view live and recorded video remotely via a web browser, mobile app, or client software. |
| Mobile App Support: Compatibility with iOS and Android devices for remote viewing and notifications. |

SECTION – VI

PRE - QUALIFICATION CRITERIA

(Referred to in clause 13.3 of ITB)

I. Terms of Qualification for Equipment:

The Authorized Distributor or manufacturer should have supplied similar equipment as specified in the schedule of requirements to any Indian Institutions, up to the following quantity in any one of the last three financial years and completed the supplies within the stipulated delivery period. The Supplied units should be in working condition without any adverse remarks for the last two years as on the date of bid notification.

- (a). at least equal of the quantity offered or 25, whichever is lowest, if the tender quantity is ≤ 49 (or)
- (b). at least 50% of the quantity offered or 70, whichever is lowest, if the tender quantity is between 50 and 199
- (c). at least 35% of the quantity offered or 125, whichever is lowest, if the tender quantity is between 200 and 499
- (d). at least 25% of the quantity offered, if the tender quantity is > 500

- The bidder should furnish the information on past supplies and satisfactory performance in the proforma given under Section XI- Format B1, duly attested by the Bid signatory
- **Performance statement along with required PO copies and its corresponding end user's satisfactory performance certificate Section XI. The documentary proof will be a certificate from the consignee/end user with cross-reference of order no. and date in the certificate along with a notarized certification authenticating the correctness of the information furnished.**
- Bidders shall invariably furnish documentary evidence (End-user Certificate) in support of the satisfactory operation of the equipment as specified or a CA/Statutory auditor Certificate to that extent as per the format provided in the Section XI- Format B2
- The Bidder shall have an Avg. annual turnover in the last three financial years of not less than the amount specified against each item in the Schedule of the Requirements and also to have a positive net worth as per the latest Annual Accounts.
- Towards the above, the bidder should furnish data as per the Format (B3) given in Section- XI, to support that he has the financial capacity to perform the contract. Further the bidder as to submit the corresponding Balance Sheets and Profit and Loss Accounts for verification

- a) The Manufacturer, must have necessary quality certifications for both processes and products such as ISO 9001 (Quality Management System for Organization)
- b) Full Quality Assurance System Approval certificate Management System Certification for Medical Devices and their equivalent International Standards certificates as BIS/CE/USFDA etc.

II. Terms of Disqualification:

1. The Bidders who has withdrawn their bids in any of the previous tenders of APMSIDC
2. A bidder who is placed on the black-list by either APMSIDC or by any other State /Central government's department or organization for the product offered with his bid in the last 3 years
3. A bidder who is placed on the black-list by either APMSIDC or by any other State / Central government's department or organization in the last 3 years
4. A bidder who is currently blacklisted / debarred either by APMSIDC or by any State Government or Central Government Department or Organization
5. The bidder who has been declared as 'undependable supplier' for two (2) items or in two (2) instances in the last one year by the APMSIDC and
6. The bidders against whom there have been reports of substandard Equipment and/or service are liable for disqualification.
7. **In past performance documents related to Trading will not be considered**

Note: In all the above cases, the disqualification cut-off date will be till the contract is signed

- III. Not with standing anything stated above, the purchaser reserves the right to assess the Bidders capabilities and capacity to perform the contract should circumstances warrant such an assessment in the overall interest of the purchaser deciding on award.

SECTION – VII (A): BID FORM

(Name and Address of Purchaser)

Date _____

To
The Managing Director,
APMSIDC, Mangalagiri, Guntur.

Contract No. _____

Gentlemen:

Having examined the Bidding Documents including Addenda No. _____ the receipt of which is hereby duly acknowledged, we, the under-signed, offer to supply and deliver _____ (Description of Goods and Services) in conformity with the said Bidding Documents for the sum as given in the Price Bid (electronically) or such other sums as may be ascertained in accordance with the schedule of prices furnished and made part of this bid.

We undertake, if our bid is accepted, to commence delivery within 60 (Number) days and to complete delivery of all the items and perform incidental services as specified in the contract within 60 (Number) days calculated from the date of receipt of your Notification of Award/Letter of credit.

If our bid is accepted we will obtain the guarantee of a bank in a sum not exceeding 5% of the Contract price for the due performance of the Contract

We agree to abide by this bid for a period of 90 (Number) days from the date fixed for bid opening under Clause 22 of the Instruction to Bidders and shall remain binding upon us and may be accepted at any time before the expiration of that period.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in India like "The Prevention of Corruption Act 1988"

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

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

Dated this _____ day of _____

Signature: _____

(in the Capacity of) : _____

Duly Authorized to sign bid for and on behalf of

Section VII (B) - Model PRICE Schedules (available on e-procurement Platform)

Information Technology Electro. (P) | <https://tender.zeprocurement.gov.in/ViewItemFormaD.html>

Current Tender Details

| | |
|--|--|
| Tender ID: 1236 | EPN Number / Tender Notice Number: 1.1/47MSDC/2015-17, Dated: 07.05.2015 |
| Tender Category: PRODUCTS | Tender Evaluation Type: New Item |
| Tender Type: OPEN | Estimated Contract Value: 0 |
| Tender Opening Date: 17/05/2016 05:15 PM | Bid Submission Closing Date: 01/06/2016 05:15 PM |

Schedule Details

| | |
|------------------------------|---------------------------------------|
| Schedule Name: Miscellaneous | Schedule Description: Different items |
|------------------------------|---------------------------------------|

Item Details

| | |
|--|--|
| Item Code: Surg001 | Item Name: GRAM STAINING KIT |
| Item Description: As per tender document | Item Specification: As per tender document |

Add / Edit Cost Component Details

| 30 | Component Name | Type | Percentage / Amount |
|------|--------------------------------|------------|---------------------|
| E001 | CST | --SELECT-- | |
| E002 | Customs Duty | --SELECT-- | |
| E003 | Discount | --SELECT-- | |
| E004 | Entry Tax | --SELECT-- | |
| E005 | Duties Duty Including Cess | --SELECT-- | |
| E006 | Freight Charges | --SELECT-- | |
| E007 | Insurance Charges | --SELECT-- | |
| E008 | Other Charges/Any | --SELECT-- | |
| E009 | Packaging & Forwarding Charges | --SELECT-- | |
| E010 | VAT | --SELECT-- | |

Remarks:

| Total KIT Quantity | Offered Quantity (A) | Brand/Make/Model | Basic price Unit (INR) (B) | Basic price Unit (in Words) | Total Cost Component Unit (INR) (C) | Landed Price Per Unit (B+C) |
|--------------------|----------------------|------------------|----------------------------|-----------------------------|-------------------------------------|-----------------------------|
| | | | | | | |

SECTION – VIII
Bid Security Form

To

The Managing Director
APMSIDC, Mangalagiri, Guntur.

Whereas _____ (hereinafter called "the Bidder" has submitted its bid dated _____ for the supply of _____ (hereinafter called "the Bid")

KNOW ALL MEN by these presents that WE _____ of _____ having our registered office at _____ (hereinafter called the Bank") are bound unto

_____ (hereinafter called "the purchaser") in the sum of _____ for which payment will and truly to be made to the said purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the common Seal of the said Bank this _____ day of _____.

THE CONDITIONS of this obligation are:

If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid form; or

If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity:

- Fails or refuses to execute the contract form if required
- Fails or refuses to furnish the performance security, in accordance with the Instruction to Bidders
- Does not accept the correction of the bid price pursuant to Clause 15.7(c).

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

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

.....(Signature of the Bank)

SECTION – IX : CONTRACT FORM

THIS AGREEMENT made the _____ day of _____ between _____ (Name of Purchaser) of _____ (Country of Purchaser) (hereinafter "the Purchaser") of one part and _____ (Name of the Supplier) of _____ (City and Country of Supplier) (hereinafter "the Supplier") of the other part.

WHEREAS the Purchaser is desirous that certain Goods and ancillary services should be provided by the supplier, viz, _____ (Brief description of Goods and Services) and has accepted a bid by the supply of Goods and services in the sum of _____ (Contract price in Words and Figures) (hereinafter "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

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

| SL NO. | BRIEF DESCRIPTION TO GOODS & SERVICES | QUANTITY TO BE SUPPLIED | UNIT PRICE | DELIVERY TERMS |
|--------|---------------------------------------|-------------------------|------------|----------------|
| | | | | |
| | | | | |
| | | | | |

TOTAL VALUE:

DELIVERY SCHEDULE:

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

Signed, Sealed and Delivered by the

Said _____ (For the Purchaser)

in the presence of _____

Signed, sealed and Delivered by the

Said _____ (For the supplier)

In the presence of _____

SECTION- X: PERFORMANCE SECURITY FORM

To

The Managing Director
APMSIDC,
Mangalagiri, Guntur.

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

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

AND WHEREAS we have agreed to give the Supplier a Guarantee:

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

This guarantee is valid until the _____ day of _____.

Signature and seal of Guarantors

Date _____

Address _____

SECTION XI

FORMAT B1: PROFORMA FOR PERFORMANCE (for a period of last three years)

(Please see Section VI: Qualification Criteria)

Bid No. _____ Date of Opening _____ Time _____ Hours

Name of the Firm _____

| Order placed by _____ (Full address of Purchaser) | Order No | Date | Description of Item | Quantity of ordered Items. | Value of order | Date of completion of delivery | | Remarks indicating reasons for late delivery, if any | Has the Supplier received full payment towards the supplies made |
|--|----------|------|---------------------|----------------------------|----------------|--------------------------------|--------|--|--|
| | | | | | | Purchase terms | Actual | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Signature and seal of the Bid Signatory

SECTION XI

FORMAT B2

CA (STATUTORY AUDITOR) CERTIFICATE

(Please see Section VI: Qualification Criteria)

Certificate from the Statutory Auditor

This is to certify that (name of the Bidder) is a “**Manufacturer/Authorized Distributor**” of the required items offered under the Bid. The Bidder had supplied the quantities shown in the past performance statement and also completed the respective supplies within the stipulated delivery period/s.

Further it is certified that the previously supplied equipment are reported to be in working condition without any adverse remarks from the respective users and some are working for more than two year as per the records as on the date of this Tender notification.

The bidder has previous experience in maintenance and repairs of equipment for _____ years and has qualified service staff working with him”.

Name of Authorized Signatory:

Designation:

Name of firm:

(Signature of the Authorized Signatory)

Seal of the Firm

SECTION XI

B3- FINANCIAL CAPACITY OF THE MANUFACTURER

A. Details of Annual Turnover for Preceding 3 Years.

| | Year 1 (2021-22) | Year 2 (2022-23) | Year 3 (2023-24) | Average Annual Turnover |
|---------------------------------|---------------------|---------------------|---------------------|-------------------------------|
| Turn Over (In Rs. Crores) | | | | |

B. Details of Net Worth

| | |
|---|--|
| | Year1 (Last Financial Year i.e. as on 31 st March 2024) |
| Paid up Capital (Rs. Cr) | |
| (Add) Free Reserves (Rs. Cr) | |
| Total Net Worth (Rs. Cr) | |
| <div style="border-top: 1px solid black; width: 80%; margin: 0 auto;"></div> <div style="text-align: right; margin-top: 5px;">(Signature of Bid Signatory) Seal of the Firm</div> | |
| <p style="text-align: center;">Certificate from the Statutory Auditor</p> <p>This is to certify that(name of the Bidder) has an average annual turnover (in the last three financial years) and Net Worth (in the last financial year) as shown above</p> <p>Name of Authorized Signatory: Designation: Name of firm:</p> <div style="text-align: right; margin-top: 20px;"><div style="border-top: 1px solid black; width: 150px; margin: 0 auto;"></div><div style="text-align: right; margin-top: 5px;">(Signature of the Authorized Signatory) Seal of the Firm</div></div> | |

SECTION XI

B3-A FINANCIAL CAPACITY OF THE DISTRIBUTOR

A. Details of Annual Turnover for Preceding 3 Years.

| | Year 1 (2021-22) | Year 2 (2022-23) | Year 3 (2023-24) | Average Annual Turnover |
|---------------------------------|---------------------|---------------------|---------------------|-------------------------------|
| Turn Over (In Rs. Crores) | | | | |

B. Details of Net Worth

| | |
|---|--|
| | Year1 (Last Financial Year i.e. as on 31 st March 2024) |
| Paid up Capital (Rs. Cr) | |
| (Add) Free Reserves (Rs. Cr) | |
| Total Net Worth (Rs. Cr) | |
| <div style="text-align: right;"><hr/>(Signature of Bid Signatory) Seal of the Firm</div> | |
| <p style="text-align: center;">Certificate from the Statutory Auditor</p> <p>This is to certify that(name of the Bidder) has an average annual turnover (in the last three financial years) and Net Worth (in the last financial year) as shown above</p> <p>Name of Authorized Signatory: Designation: Name of firm:</p> <div style="text-align: right;"><p>(Signature of the Authorized Signatory) Seal of the Firm</p></div> | |

SECTION – XII -A

(Please see Clause 13.3(a) of Instructions to Bidders)

(to be submitted by manufacturers)

MANUFACTURER'S AUTHORIZATION FORM

No. _____ dated _____

To

The Managing Director

APMSIDC, Mangalagiri, Guntur.

Dear Sir,

Tender Notice No. _____

We _____ who are established and reputable manufacturers of _____ having factories at _____ and _____ do hereby authorize M/s. _____ (Name and address of Agents) to bid, negotiate and conclude the contract with you against Tender Notice No. _____ for the above goods manufactured by us.

No company or firm or individual other than M/s. _____ are authorized to bid, negotiate and conclude the contract in regard to this business against this specific Tender Notice.

We hereby declare that we are willing to provide guarantee/warranty and after sales service during the period of comprehensive warranty/CMC/AMC as per the above tender.

We also hereby declare that we have the capacity to manufacture and supply, install and commission the quantity of the equipments tendered within the stipulated time.

We hereby extend our full guarantee and warranty as per Clause 15 of the General Conditions of Contract and read with the Clause 10 of Special Conditions of Contract, for the Goods offered for supply against this invitation for bid by the above firm.

Yours faithfully,

(Name) for and on behalf of M/s.

_____(Name
of manufacturers)

Note: This letter of authority is on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer.

SECTION – XII -B

(Please see Clause 13.3(a) of Instructions to Bidders)

(to be submitted by Authorized Distributors)

MANUFACTURER'S AUTHORIZATION FORM

No. _____ dated _____

To

The Managing Director

APMSIDC, Mangalagiri, Guntur.

Dear Sir,

Tender Notice No. _____

We _____ who are established and reputable manufacturers of _____ having factories at _____ and _____ do hereby authorize M/s. _____ (Name and address of Agents) to bid, negotiate and conclude the contract with you against Tender Notice No. _____ for the above goods manufactured by us.

No company or firm or individual other than M/s. _____ are authorized to bid, negotiate and conclude the contract in regard to this business against this specific Tender Notice.

We also hereby undertake to provide full guarantee/warranty/CMC/AMC as agreed by the tenderer in the event the tenderer is changed as the dealers or the tenderer fails to provide satisfactory after sales and service during such period of comprehensive warranty/CMC/AMC and to supply all the spares/ reagents during the said period.

We also hereby declare that we have the capacity to manufacture and supply, install and commission the quantity of the equipments tendered within the stipulated time.

We hereby extend our full guarantee and warranty as per Clause 15 of the General Conditions of Contract and read with the Clause 10 of Special Conditions of Contract, for the Goods offered for supply against this invitation for bid by the above firm.

Yours faithfully,
(Name) for and on behalf of M/s.

(Name
of manufacturers)

Note: This letter of authority is on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer.

SECTION - XIII

DECLARATION FORM

I / We having Our
..... office at read and understood
the terms and conditions contained in the bidding documents under this notification for
bid and offer our bids unconditional, to the extent not stated at any other part of our bid.

We will not quote or supply the equipment/furniture similar to the ones offered
under this bid notification to any agency or organization in the country, at the rate lower
than the rate quoted in this present tender.

If we found quoting lower rate than the rate quoted to the APMSIDC, to any other
agency in the country during the validity of the present contract, we will remit the
differential cost to the APMSIDC, unconditionally.

Signature :

Date :

Name of the
Firm and address :

SECTION XIV

Check List of Documents to be Uploaded as part of the Bid and Notes to Bidders

I. Documents with the Technical Bid

| Sl. No | Document Description | Documents to be submitted |
|--------|--|---------------------------|
| 1 | Process Fee 11,800/- | online |
| 2 | EMD | Online & Offline |
| 3 | Bid Form Section VII-A | Online & Offline |
| 4 | List of items offered with Make and Model details without prices | Online & Offline |
| 5 | Manufacturers Authorization | Online & Offline |
| 6 | Past Performance Details Format B1 along with supporting documents | Online & Offline |
| 7 | End-User Certificates or CA Certificate as per Format B2 | Online & Offline |
| 8 | Financial Capability Details Format B3 for Manufacturer | Online & Offline |
| 9 | Financial Capability Details Format B3-A Distributor | Online & Offline |
| 10 | Details & proof of After-Sales Service facilities | Online & Offline |
| 11 | Letter of authorization to sign the bids | Online & Offline |
| 12 | Clause-by-clause commentary on technical specifications | Online & Offline |
| 13 | Technical and Commercial deviations statements | Online & Offline |
| 14 | Copy of the GST Certificate and Details of IT Returns- PAN / TIN copies. | Online & Offline |
| 15 | The Manufacturer, must have necessary quality certifications for both processes and products such as ISO 9001 (Quality Management System for Organization) and ISO 13485 (Quality Management System for Medical Devices) for medical devices | Online & Offline |
| 16 | Full Quality Assurance System Approval Certificate Management System Certification for Medical Devices and their equivalent International Standards certificates (BIS/CE/USFDA etc) for medical devices, 14001, OSHAS for furniture items and UL certificates for CC Cameras | Online & Offline |
| 17 | Memorandum of Articles | Online & Offline |
| 18 | All the uploaded Technical bid, to be attested by a Gazette Officer or properly notarized or self-attested | Online & Offline |
| 19 | General information about the bidder | Online & Offline |

| Sl. No | Document Description | Documents to be submitted |
|---------------|------------------------------|----------------------------------|
| 20 | Declaration Form | Online & Offline |
| 21 | DPIIT approval (If required) | Online & Offline |

II. Financial (Price) Bid in the format available with the e-procurement platform

- Please note that the Bidder runs the risk of his bid being rejected if the price schedule contains any conditions.

Notes to Bidders

1. Upload the documents in ZIP format with suitable description as defined above.
2. The scanned documents shall be legible failing which they will not be considered.
3. Sign on all statements, documents, certificates uploaded owning responsibility for their correctness / authenticity.
4. All the statements copies of the certificates, documents etc., enclosed to the Technical bid shall be given page numbers on the right corner of each certificate
5. The tenderer is subjected to be blacklisted and the EMD forfeited if he is found to have mislead or furnished false information in the forms / statements / certificates submitted in proof of qualification requirements or record of performance (Please see Corrupt and Fraudulent Practices Clause)
6. All the Bidders are requested to quote with single option only, for the each item offered and please note that bids with multiple options, for any one or all of the items offered, will be rejected by the purchaser as Non-responsive.

(On Firm letter Head)

Annexure - I

ANDHRA PRADESH MEDICAL SERVICES &
INFRASTRUCTURE DEVELOPMENT CORPORATION
(APMSIDC)

INSTALLATION CERTIFICATE

(to be filed jointly by the Tenderer, head of user institution &
Representative of the Tender Inviting Authority individually
for every equipment)

| | | | | |
|--|---------|-------------------------------------|------------|---------|
| HOSP CODE/ Hospital Name: | | | | |
| Equipment Details | | | | |
| EQPT CODE/ Name of the equipment: | | Purchase Order No: | | |
| Make / Manufacturer | | Purchase Order Date: | | |
| Model | | Purchase Amount | | |
| Serial no. | | Project Name | | |
| Location / Department | | | | |
| Installation Start Date | | Completed Date. | | |
| Comprehensive Warranty Start Date | | Comprehensive Warranty End Date: | | |
| Preventive Maintenance Schedule (Specify Year & Month) | | | | |
| YEAR | Visit 1 | Visit 2 | Visit 3 | Visit 4 |
| | | | | |
| | | | | |
| | | | | |
| Contact Details | | | | |
| SUP.CODE / Name of the Supplier | | | | |
| Name of Service Engineer | | Mobile No. | | |
| Service Centre Manager's name | | Mobile No. | | |
| Service center address | | | | |
| Accessories supplied | | | | |
| Sl. No. | Item | Qty. | Serial No. | Remarks |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| To be filled by Institution | | | |
|--|--|--|------------------------|
| Whether the sticker affixed on all the key components of the equipment or on a conspicuous place in the installed room/storage area? | | | YES / NO (tick one) |
| Whether a digital Photograph of the installed equipment taken after affixing the sticker in the presence of the hospital personnel? | | | YES / NO |
| Whether the Demonstration of the equipment with accessories on the technical specification/key features was conducted to the satisfaction at the time of installation? | | | YES / NO |
| Whether training was conducted to the satisfaction at the time of installation? | | | YES / NO |
| Short supply items, if any | | | |
| Remarks of hospital authorities | | | |
| Recommend to release payment YES <input type="checkbox"/> NO <input type="checkbox"/> | | The equipment is working satisfactorily YES <input type="checkbox"/> NO <input type="checkbox"/> | |
| The equipment was installed and handed over on (Installation date to be filled in by the Head of the institution or by the end user) | | | |
| Name of Service Engr. | | Sign. | |
| Name of End User & Department Mobile No. | | Sign. | |
| Name of Bio Medical Engr. & Organization | | Sign. | |
| Signature of the Superintendent. Mobile No. | | Sign. & Seal | |
| Date: Seal of supplier: | | Date: Hospital Seal: | |

Note: The installation report shall be submitted in a single sheet printed back to back and shall be submitted individually for each equipment installed.

On Consignee letter Head

Annexure - II

Dt: _____

ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE DEVELOPMENT CORPORATION (APMSIDC)

THREE MONTHS PERFORMANCE CERTIFICATE

(to be filled by the head of user institution individually for every equipment)

| | | | | |
|---|------------------|--|--|-----------------------------------|
| HOSP CODE / Hospital Name: | | | | |
| SUP.CODE / Name of the Supplier | | | | |
| Equipment Details | | | | |
| EQPT CODE /Name of the equipment: | | Purchase Order No: | | |
| Make / Manufacturer | | Purchase Order Date: | | |
| Model | | Purchase Amount | | |
| Serial no. | | Project Name | | |
| Date of Installation | | Location / Department | | |
| Whether Equipment working satisfactorily without any problem for one month? | | | YES <input type="checkbox"/> NO <input type="checkbox"/> | |
| If No, provide details of equipment failure in the first month <i>(attach additional details if any in a separate sheet)</i> | | | | |
| BREAK DOWN DETAILS | | | | |
| Break down Reported Date | Attended date | Rectified date | Attended by | Details of beak down / service |
| | | | | |
| | | | | |
| | | | | |
| Present status of the equipment | | Working satisfactorily <input type="checkbox"/> Not working satisfactorily <input type="checkbox"/> | | |
| Recommended to settle the final payment | | | YES <input type="checkbox"/> NO <input type="checkbox"/> | |
| Recommend for trial run for one more month | | | YES <input type="checkbox"/> NO <input type="checkbox"/> | |
| Performance of accessories supplied | | | | |
| Further Training | | Required <input type="checkbox"/> Not required <input type="checkbox"/> | | |
| Remarks of hospital authorities | | | | |
| Three month performance certificate was issued on | | | | |

| | | | |
|--|--|--------------------------|--|
| <i>(date to be filed in by the Head of the institution or by the end user)</i> | | | |
| Name of End User & Department | | Sign. | |
| Signature of the Superintendent. | | Sign. & Seal | |
| Date: Seal of supplier: | | Date: Hospital Seal : | |

Annexure - III

**ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE DEVELOPMENT
CORPORATION (APMSIDC)**

WARRANTY CERTIFICATE

*(to be filled jointly by the Tenderer, head of user institution &
Representative of the Tender Inviting Authority individually for
every equipment)*

Date:

APMSIDC Supply order No:dated.....

The equipment (*Equipment Name*)
Model No..... bearing serial no was
installed successfully at (*Institution
Name*) is offered with a comprehensive warranty for a period of Years
starting from to including all the
following accessories;

| Sl. No | Name of the accessory | Manufacturer's name | Equipment Serial No. | Qty |
|--------|-----------------------|---------------------|-------------------------|-----|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| | |
|--|---|
| Name of the Supplier: Signature: Seal: | Name of the Supdt. / End User: Signature: Seal: |
|--|---|

**ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE DEVELOPMENT
CORPORATION (APMSIDC)**

PREVENTIVE MAINTENANCE CHECK LIST

Equipment Name.

| Sl. No. | Activities carried out during Preventive Maintenance visit | Visit 1 | Visit 2 | Visit 3 | Visit 4 |
|---------|---|---------|---------|---------|---------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |

Annexure-V

**ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE DEVELOPMENT
CORPORATION (APMSIDC)**

CALIBRATION CHECK LIST

Equipment Name

Model.

| Sl. No. | Parameters to be calibrated | Frequency of calibration required |
|---------|-----------------------------|-----------------------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |

Annexure-VI

**ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE DEVELOPMENT
CORPORATION (APMSIDC)**

List of Spare Part

Equipment Name :

Make:

Model

| Sl. No. | Spare name | Cost (inclusive of all charges) |
|---------|------------|---------------------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |

Signature :

Date :

Name of the
Firm and address :

Annexure-VII

ANDHRA PRADESH MEDICAL SERVICES & INFRASTRUCTURE DEVELOPMENT CORPORATION (APMSIDC)

GENERAL INFORMATION ABOUT THE TENDERER

Name of the Tenderer

Registered address
of the firm

State:

District

Telephone. No.

Fax. No.

Email.

| | | | | |
|---|---------------|--|----------|--|
| 3 | Address | | | |
| | | | | |
| | State | | District | |
| | Telephone No. | | Fax | |
| | Email | | Website | |

Type of Firm (Please ☐ relevant box)

| | | | | | | |
|-----------------------|--|--|---|--|-----------------|--|
| 4 | Private Ltd. | | Public Ltd. | | Proprietorship | |
| | Partnership | | Society | | Others, specify | |
| | Registration No. & Date of Registration. | | | | | |
| Nature of Bussiness (| | | -lease <input type="checkbox"/> relevant box) | | | |
| 5 | Original Equipment Manufacturer | | Authorized Dealer /Representative | | | |
| | Direct Importer | | Others, specify. | | | |

Annexure-VIII**SERVICE CENTRE DETAILS**

| TOLL FREE NUMBER, IF ANY | | | |
|--------------------------|--|---------------------------|--|
| Sl. No | Name and address of the service center (s) | Contact Details | |
| 1 | | Telephone No: | |
| | | Fax No: | |
| | | Email ID. | |
| | | Name of the Service Engr. | |
| | | Mobile No. | |
| 2 | | Telephone No: | |
| | | Fax No: | |
| | | Email ID. | |
| | | Name of the Service Engr. | |
| | | Mobile No. | |
| 3 | | Telephone No: | |
| | | Fax No: | |
| | | Email ID. | |
| | | Name of the Service Engr. | |
| | | Mobile No. | |