

BIDDING DOCUMENT

for

**Dismantling, shifting and re-installation of existing Equipments including
associated Electrical / Civil Works**

&

**SUPPLY and INSTALLATION of new EQUIPMENT for
CENTRAL STERILE SUPPLY DEPARTEMENT (CSSD)**



**INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES,
SHEIKHPURA, PATNA – 800 014 (Bihar)**

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SCHEDULE-1

TERMS AND CONDITIONS:

1. This Invitation For Bids is open to all eligible manufacturer and/or their authorized dealers.
2. Bid must reach the office of the **Director, Indira Gandhi Institute of Medical Sciences, Sheikhpura, Patna – 800014 (Bihar)** as in the date and time as stipulated in the IFB. A late Bid will not be accepted under any circumstances and for reasons what so ever.
3. All Bids duly sealed must be addressed to the **Director, Indira Gandhi Institute of Medical Sciences, Sheikhpura, Patna – 800014 (Bihar)** and IFB No should be **super scribed prominently** in the covering envelope along with full name and address of the Bidder.
4. The Bidder shall bear all costs associated with the preparation and submission of its Bid, Director, Indira Gandhi Institute of Medical Sciences, Sheikhpura, Patna – 800014 (Bihar) herein after referred to as “**the Purchaser**” will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tender process.
5. It is the responsibility of the Bidder to ensure that their Bid, whether sent by post or by courier or by person are dropped in the Tender Box in the office of the Director, Indira Gandhi Institute of Medical Sciences, Sheikhpura, Patna – 800014 (Bihar) within the stipulated date and time as mentioned in the IFB. The I.G.I.M.S. – Patna will not undertake any responsibility whatsoever for postal delay in process of submission of Bids.
6. 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 bidder’s risk and may result in the rejection of its bid.
7. **Bidders shall submit their bids in two parts as under:**
 - a) **Technical bids**, in triplicate, consisting of technical details bringing out clearly in a separate sheet, the deviations in specifications if any from that of ‘Technical Specifications’ and also clause-by-clause compliance of specifications along with the commercial terms and conditions and bid security.
 - b) **Price bids** showing only item wise prices in a separate sealed cover inside the main cover.
 - c) It may be noted that when the main cover is opened on the date and time scheduled for Bid opening, only the technical bids will be opened and read out in public.
 - d) Bidders whose technical bids are found substantially responsive will be informed of the date and time of opening of their price bids. Price bids of others will be returned to them unopened before opening the price bids of others. The Bids should be duly marked and sealed, as “Original”, “Duplicate” and “Triplicate”. The sealed bids viz. Original, Duplicate and Triplicate of Technical and Price Bids as mentioned above should be put together finally in a big envelope, which should be sealed as per the clause 3 above.
8. It may be noted that Technical bids will be opened and read out in presence of bidders or their authorized representative if they desire to remain present on the date and time scheduled for Bid opening,
9. The original, duplicate and triplicate copies of 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. Written power-of-attorney accompanying the bid shall indicate the letter of authorization. The person or persons signing the bid shall initial all pages of the bid, except for un-laminated printed literature.

10. In the event of any discrepancy between original, duplicate and triplicate bids, the original shall govern.
11. The bidder shall complete the bid forms and the appropriate price furnished in the bidding documents, indicating for the goods to be supplied, a brief description of the goods, their country of origin, quantity and prices.
12. For comparison of bids, the purchaser will grant a margin of preference to goods in accordance with the Govt. standing procedures, provided the bidder shall have established to the satisfaction of the purchaser that the goods are eligible for price/purchase preference.
13. However, the quantum of price/purchase preference to be allowed shall be determined by the purchaser on the merits of individual cases based on the prevailing Government policy and his decision shall be final and binding and the purchaser shall entertain no representations on this ground.
14. To assist in the examination, evaluation and comparison of bids, the purchaser may, at its discretion, ask the bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in the price or substance of the bid shall be sought, offered or permitted.
15. Preliminary examination: The purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required EMD has been furnished, whether the document have been properly signed, whether the bid validity is as required and whether the bids are generally in order.
16. **Bid from accredited dealers without proper authorization from the manufacturers shall be treated as non-responsive and shall be rejected.**
17. The bid shall remain valid for 365 (three hundred and sixty five) days after date of bid opening. The Purchaser shall reject a bid valid for a shorter period. In exceptional circumstances, the purchaser may solicit the bidder's consent to an extension of the period of tender validity. The request and the responses thereto shall be made in writing. The EMD (bid security) provided under clause 19 shall also be suitably extended. A bidder may refuse the request without forfeiting its bid security. A bidder granting the request will not be required nor permitted to modify its bid.
18. The contract should be completed within 60 days from the issue of formal supply order.
19. **The bidder must furnish EMD (bid security) as per the schedule of requirement unless otherwise exempted under Govt. Orders/Rules in force.**
20. **The EMD** (bid security @ 2% of total quoted value) shall be demonstrated in the Indian Rupees and shall be in one of the following forms:
 - a) **Demand Draft** in favour of Director, Indira Gandhi Institute of Medical Sciences – Patna payable at Patna.
21. Any bid from a bidder who fails to furnish EMD (furnish a notarized copy of the registration certificate for the item quoted), not secured in accordance with clause 19 and 20 will be summarily rejected by the purchaser, as non-responsive.
22. Unsuccessful bidder's EMD (bid security) will be discharged / returned as promptly as possible. The bidders are advised in their own interest to send a pre-receipted challan along with their bid so that the return of EMD (bid security) after the bid have been rejected, is made within the stipulation period.
23. The successful bidder's EMD (bid security) will be discharged /returned upon the bidder executing the contract and after furnishing the Performance security, pursuant to clause 32.

24. **The prices must be quoted in Indian Rupees. Bids, where prices are quoted in any other way shall be treated as non-responsive and rejected. The bidder shall indicate on the appropriate price schedule attached to these documents the unit prices and total bid prices of goods it proposed to supply under the contract.**
25. The Purchaser will technically evaluate all bids previously determined to be responsive and compare the bids previously determined to be substantially responsive and technically acceptable.
26. The Purchaser's evaluation of a bid will include and take into account:
- The goods manufactured indigenously or goods of foreign origin already located in India:** excise duty, sales tax and other similar taxes and duties, which will be payable on the goods if a contract is awarded to the bidder and the purchaser's evaluation of a bid will exclude and not take into account the additional features like training in India or abroad offered free or at an additional cost unless specifically asked for in the 'Technical Specifications'.
27. The comparison shall be of F.O.R. site and delivered and commissioned at consignee's end. The purchaser's evaluation of bid will take into account, in addition to the bid price and the price of incidental services, the following factors, in the manner and to the extent indicated in clause 28 and in the 'Technical Specifications':
- a) Cost of inland transportation and other costs within India incidental to delivery of the goods to their final destination at consignee's site,
 - b) delivery schedule offered in the bid,
 - c) deviations in payment schedule from that specified under clause 49.
 - d) the cost of guarantee/warranty and
 - e) the Performance and productivity of the equipment offered.
28. Pursuant to clause 27, following evaluation methods will be followed:
- a) **Inland transportation, insurance and incidentals:**
Bidder shall quote separately for inland transportation, insurance and other incidentals for delivery of goods to the site.
 - b) **Applicable Taxes:** Bidder shall quote separately for all applicable taxes payable to the Govt. for delivery of goods to the site.
29. **Purchaser's right to accept any bid and to reject any or all bids:** The purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject any or all bids at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligations to inform the affected bidder or bidders of the grounds for the purchaser's action.
30. **Notification of award:** Prior to the expiration of the period of bid validity, the purchaser will notify the successful bidder in writing, by registered letter or by cable or telex or fax (to be confirmed in writing by registered letter), that its bid has been accepted. The notification of award will constitute the formation of the contract.
31. **Signing of contract:** At the same time, the purchaser notifies the successful bidder that its bid has been accepted, the purchaser will send the bidder the contract form provided in the bidding documents, incorporating all agreements between the parties. The successful bidder shall sign and date the contract form provided in the document. A registered Power of Attorney is to be supported with the bid in favour of the person(s) who will sign the bid as well as contract form if contract is awarded.
32. **Performance Security:** Immediately after the receipt of notification of award from the purchaser, the successful bidder shall furnish the Performance Security. The supplier shall furnish Performance Security to the purchaser for an amount of **05% (five percent)** of the order value in form of Bank Guarantee / Demand Draft, valid for the entire period of warranty. However, if the supplier fails to execute the order or fails to perform the services as per contract in addition to other panel actions, the performance security shall be encashed & the amount forfeited.
33. Failure of the successful bidder to comply with the requirement of clause 31 or clause 32 shall constitute sufficient grounds for the annulment of the award and forfeiture of the EMD (bid security), in which event the purchaser may like the award to the next lowest evaluated bidder or call for new bids.

34. 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.
35. **The Performance Security** shall be denominated in the Indian Rupees and shall be in one of the following forms:
- a) **Demand Draft** in favour of Director, Indira Gandhi Institute of Medical Sciences – Patna payable at Patna..
 - b. Bank Guarantee with a validity to cover up the warranty period.
36. **Inspection and tests:** The purchaser or its representatives shall have the right to inspect and/or to test the goods to confirm their conformity to the contract. The purchaser shall notify the supplier in writing of the identity of any representatives for this purpose.
37. The inspections and tests may be conducted on the premises of the supplier, at point of delivery and/or at the goods final destination, where conducted on the premises of the supplier, all reasonable facilities and assistance including access to drawings and production data shall be furnished to the inspectors at no charge to the purchaser. 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 all alterations necessary to meet specification requirements free of cost to the purchaser, within a period of **15 (fifteen)** days of intimating such rejection. The purchaser's right to inspect, test and, where necessary, reject the goods after the good's arrival at the final destination shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by purchaser or its representatives prior to the goods dispatch from the place of manufacture.
38. Nothing in clause 37 shall in any way release the supplier from any warranty or other obligations under the contract.
39. **Qualification Criteria:**
- a. The bidder must be a manufacturer or their accredited dealers (specifically against this IFB for the subject goods) and had successfully executed contracts for similar and/or identical goods in the past three years prior to the date of Tender opening. In support of this, the bidder shall furnish Performance Certificate or other necessary documents.
 - b. Notwithstanding anything stated above, the purchaser reserves the right to assess the bidder's capability and capacity to perform the contract satisfactorily before deciding on award of contract, should circumstances warrant such an assessment in the overall interest of the purchaser.
40. **Warranty:**
- a. The supplier warrants that the goods supplied under the contract are new, unused, or the most recent of current models and incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design, materials or workmanship (except insofar as the design or material is required by the purchaser's specifications) or from any act or omission of the supplier, that may develop under normal use of the supplied goods in India, i.e. the country of final destination.
 - b. **The warranty for all equipments should be 3 (three) years from the date of successful installation. During warranty period, firm will maintain the equipment with all spares and consumables.**
 - c. The purchaser/indenter shall notify the supplier in writing of any claims arising under this warranty.
 - d. Upon receipt of such notice, the supplier shall, with all reasonable speed, 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. No claim whatsoever shall lie on the purchaser for the replaced parts/goods thereafter.
 - e. 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 supplier's risk and expense and without prejudice to any other rights which the purchase may have against the supplier under the contract.

- 41. Reasonability of rates/ firm price:**
- a. The bidder shall certify that the rates quoted are the lowest ones for any institution in the country.
 - b. During the period of the contract, if the price of any tendered item is reduced due to any reason including any Law or Act of the Central/State Government, the bidder shall be statutorily bound to intimate the reduced rates immediately to the purchaser and shall charge the reduced rates. The purchaser is empowered to unilaterally effect such reduction as is necessary in rates, in case the bidder fails to notify or fail to agree to such reduction of rates.
 - c. Subject to the condition stipulated above, the prices shall remain firm for the validity period of tender and on no account any increase in price shall be entertained till completion of the tender period.
 - d. No bidder will be allowed at any time on any ground whatsoever, to claim revision of or modification in the rates quoted by him. The representation of the bidder that computation/typographical or clerical error etc. has been committed in the bid and request for reversion on such plea shall not be entertained after opening of the bid.
- 42. Contacting the Purchaser:** Subject to clause 18, no bidder shall contact the purchaser on any matter relating to its bid, from the time of the bid opening to the time the contract is awarded. Any effort by a bidder to influence the purchaser in the purchaser's bid evaluation, bid comparison or contract award decisions shall result in the rejection of the bidder's bid and also banning of business dealings with the bidder for a period of three years from the date of such ban.
- 43. Documents establishing good's eligibility and conformity to bidding documents:**
The bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all goods and services, which the bidder proposes to supply under the contract. The documentary evidence of the goods and services eligibility shall consist of a statement in the price schedule. 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,
 - b. A list giving full particulars, including available sources and current prices, of all spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods for a period of years, following commencement of the goods used by the purchaser and iii. A clause-by-clause commentary on the purchaser's 'Technical Specification' demonstrating the goods and services substantial responsiveness to those specifications or a statement of deviations and exceptions to the provisions of the 'Technical Specifications'.
- 44. Definition of Technical Specification:** For purposes of the commentary to be furnished to clause 43 (iii) above, the bidder shall note that standards of workmanship, material and equipment 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 names and/or catalogue numbers in its bid, provided that it demonstrates to the purchaser's satisfaction that the substitutions are substantially equivalent or superior to those designated in the 'Technical Specifications'.
- 45. Statutory taxes/ duties:**
In case of any enhancement of Taxes and/ or duties or levy of fresh Taxes/ duties due to Statutory Act of the Govt., after date of submission of the tenders and during the contractual delivery period, additional or fresh levies so imposed will be allowed to be claimed as extra without any change in the price structure approved under the tender. For this purpose, the supplier shall produce a certificate from the authority concerned certifying that the item supplied falls under particular tariff resulting in additional/ fresh levies for the supplied item. However, the same shall not be borne by the purchaser in case such levies become applicable after expiry of the contractual delivery period stipulated in the contract. Further, in case the bidder has been enjoying Excise Duty exemption on any criteria like turnover etc. and at a later date, during currency of the contract, even if Excise Duty becomes chargeable on goods manufactured, the same shall be to the supplier's account and shall not be borne by the purchaser.

46. Penalty for delay in delivery:

Non-performance of the contract provisions may make the bidder liable to be disqualified to participate in any tender for the next 5 years, in addition to forfeiture of EMD / Performance Security and other penal provisions.

47. Force majeure:

The above condition of delivery period, price reduction & termination etc. are subject to force majeure conditions which are beyond the control of the supplier, do not involve fault or negligence of the supplier and are not anticipated. Such events may include but are not limited to riots, mutinies, war, fire, storm, tempest, flood, epidemics, or other exceptional causes like quarantine restrictions, freight embargoes. On specific request made by the supplier the time period of supply may be extended by the purchaser at his discretion for such period as may be considered reasonable. However, the condition shall not include scarcity of raw materials, power cut, labour dispute, failure of sub-vendor and increase in cost of raw material.

48. Fraud & Corruption:

The bidders, suppliers & contractors shall observe the highest standard of ethics during bidding and during performance of the contract. For the purposes of this provision, the following acts shall be considered as corrupt and / or fraudulent practices -

- a) "Corrupt Practice" means offering, giving, receiving, or soliciting directly or indirectly, of any thing of value to influence the action of an official in the procurement process or in contract execution.
- b) "Fraudulent Practice" means misrepresentation or omission of facts in order to execution of contract.
- c) "Collusive practice" means a scheme or arrangement between two or more bidders, with or without the knowledge of the purchaser, designed to establish bid prices at artificial, non-competitive level.
- d) "Coercive Practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process or in execution of a contract.

During the process of evaluation of a bid or proposal for award of a contract, if it is detected that a bidder directly or through agent has engaged in corrupt, fraudulent, collusive or coercive practice in competing for the contract in question, then a) the bid shall be rejected and b) declare the firm ineligible for a specific period or indefinitely to participate in a bidding process. In the bid document itself, an undertaking has to be furnished in the format at **Annexure- VII**.

49. Local conditions:

It will be imperative on the bidder to fully acquaint himself of all local conditions and factors that would have any effect on performance of the Contract. The purchaser shall not entertain any request for clarifications from the bidder regarding such local conditions nor shall accept any offer conditional to the local factors. No request for any change of price or extension of time schedule of delivery of goods shall be entertained after purchaser accepts the bid.

50. Adjudication/Review board:

Any dispute arising out of or during execution of the contract shall be settled with mutual agreement through an Adjudication/Review Board appointed by Director, I.G.I.M.S. - Patna.

51. Saving clause:

No suit, prosecution or any legal proceedings shall lie against Tender Inviting Authority or any person for anything that is done in good faith or intended to be done in pursuance of tender.

52. Laws governing the contract & jurisdiction:

The contract shall be interpreted in accordance with the laws in force in India. All disputes shall be subject to the jurisdiction of appropriate court situated at Patna.

53. Payment Terms:

- a.. **Source of Fund: I.G.I.M.S. – Patna** had received the grant from Health & F.W. Department, Govt. of Bihar for procurement of equipment for CSSD for which this IFB is issued.
- b. **Procedure for payment:** The paying authority on production of the following documents shall make 100% Payment.
 - i. Invoice in triplicate are to be submitted to the paying authority along with the other documents after completion of the supply.
 - ii. Stock Entry Certificate is to be obtained in the body of the Invoice in triplicate.
 - iii. The original Challan Copy.
 - iv. Installation and Completion certificate of the Turnkey job issued by the institute authority.
 - v. Warranty certificates.

54. The bidder must submit the following documents along with the others as mentioned above in the Technical Bid with their tender:

- a. Up to date valid VAT registration certificate.
- b. Up to date valid manufacturing license.
- c. GRN/TIN and PAN.
- d. Literature/catalogue/leaflet in support of the tendered item.
- e. Up to date dealer/ distributor certificate.
- f. Undertaking confirming acceptance of all terms and conditions of the tender.
- j. An undertaking on fraud and corruption.
- k. Manufacturer Authorization letter.
- l. The bidder shall impart education and training to upgrade the skills of the medical professionals at various levels for which a tentative programme shall be submitted.
- m. EMD (Security Deposit)

55. Additional Terms and Conditions:

- a. Total monetary value of similar nature of work performed during each of the last three years must be furnished by the bidders which are as follows:
 - i) Experience in works of a similar nature and size for each of the last three years, and details of works underway or contractually committed; and clients who may be contacted for further information on those contracts;
 - ii) Evidence of access to line (s) of credit and availability of other financial Resources facilities (20% of Contract Value), certified by the Bankers (Not more than 3 Months old);
 - iii) Authority to seek references from the Bidder's Bankers;
 - iv) Information regarding any litigation, current or during the last three years in which the Bidder is involved, the parties concerned, and disputed amount;
- b. Bids from Joint ventures are not acceptable.
- c. The bidder must be a profit making one for the last three years.
- d. Information on Bid Capacity (works for which bids have been submitted and works which are yet to be completed) as on date of this bid.
- e. The bidder shall impart education and training to upgrade the skills of the medical professionals at various levels for which a tentative programme shall be submitted.
- f. The bidder shall provide backup services of trained Technical Personnel on 24 hours basis for emergency programming.
- g. Bid shall be type – written and correction, if any, in the bid shall invariably be attested with full signature by the bidder with date, failing which the bid shall be considered ineligible for evaluation. Corrections done with correction fluid shall also be duly attested.

56. Annual Maintenance Contract / Comprehensive Annual Maintenance Contract:

Annual Maintenance Contract / Comprehensive Annual Maintenance Contract of complete area for next seven years after expiry of warranty period of three years.

Bidder shall quote for comprehensive annual maintenance charges (i.e. cost of labour plus spares and consumables) for the specified period as shown above after the expiry of the warranty period. This cost will be added to the bid price during evaluation and preparation of the comparative statement. Rate of Annual Maintenance Contract (labour only) should also be quoted separately. In case of annual maintenance

contract, bidder should also submit list of commonly used spare parts / consumables required for the maintenance of the each system with their rate (price).

SCHEDULE-2

SCHEDULE OF REQUIREMENT

Part-I

Tender Identification	Description of the Work	Tender Fee	EMD (Bid Security)
C.S.S.D. - Turnkey	<p>a. Dismantling and shifting of existing two nos. of High Pressure Horizontal Rectangular Steam Sterilizer with High Vacuum & Automatic Process Control System. (Make: Nat Steal, Model No.24SR / E / HP / HV / M / C; Sr. No 453 & 454) equipments installed at present site and its re-installation at new site. All the pipes (PVC& GI), various joint adopters, stop cork etc. will be replaced by new one of standard manufacturer during re-installation at new site.</p> <p>b.</p> <p style="padding-left: 20px;">i. Provision of water supply and storage facility (Water Tank of at least 2000 Liters; Qty. – 02 Nos. of standard make), plumbing work and other associated civil work.</p> <p style="padding-left: 20px;">ii. Providing and fixing Ceramic glazed wall tiles (Somany / KIajaria / NTC – Make or equivalent standard make) 300 x 200 mm size on the base of 12mm thick cement mortar (1:3) after demolishing old plaster all complete with all taxes as per specification and direction of user: Rate:___ / Sq. Meter.</p> <p>c. Installation of Electrical Panel of 200A with provisions of Main Switches at various places required for operation of equipments (old and new). Four nos. of outlets with Main Switch of 63A (ISI; Havels / L & T etc.) are to be provided for used with equipments. Apart from above, suitable quantity (at least 5 nos.) 5A / 15A power sockets are to be provided inside the space. General lightning (Tube / CFL & Fan) and ventilation (Suitable Exhaust Fan) are to be also provided.</p> <p>d. Installation & commissioning of following new equipments / furniture to cater present requirement of the institute:</p> <p style="padding-left: 20px;">i. Horizontal Sterilizer (approx. 600 Ltrs.) With accessories</p> <p style="padding-left: 20px;">ii. Table Top Sterilizer 20 – 25 Ltrs. With accessories.</p> <p style="padding-left: 20px;">iii. Heat Sealing Machine – Manual</p> <p style="padding-left: 20px;">iv. Heat Sealing Machine – Rotary / Automatic</p> <p style="padding-left: 20px;">v. Loading / Unloading Carriage Trolley's</p> <p style="padding-left: 20px;">vi. Closed Transport Trolley</p> <p style="padding-left: 20px;">vii. Instrument Tray</p> <p style="padding-left: 20px;">viii. Gauze Cutting Machine</p> <p style="padding-left: 20px;">ix. Storage Racks</p> <p style="padding-left: 20px;">x. Wash Stations with 2 sinks</p>	Rs.1000/- (Rs. One Thousand Only; Non-refundable)	2 (two) % of total quoted value.

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Note:

1. **Bidder should submit a soft copy (in CD) of Technical Bid (only technical specifications/details of the goods and services proposed to be supplied under contract) to help in preparation of Comparative Statement which should be inserted in the Technical Bid (Original Copy). Any discrepancy between soft and hard copy, the hard copy (printed and signed documents) shall prevail.**
2. All the materials should be well packed to avoid any breakage during transit.
3. The responsibility for providing after sale service would rest on the Principal equipment supplier.
- 4.. The Principal shall be solely responsible for warranty period and maintenance of the equipment even if there is any change in the accredited dealer during the above period.
5. **Bidders shall submit their bids in two parts.**
6. Bid security (EMD) to be furnished in favour of Director, I.G.I.M.S. – Patna.
7. Bidders shall submit their Performance statement as per Performa along with certificate from the users and copy of the orders for the equipment quoted.
8. **The quantity mentioned is only the tentative requirement and may increase or decrease as per the decision of Tender Inviting Authority. The rates quoted should not vary with the quantum of the order or the destination.**
9. **The Tender Inviting Authority shall have the right to approve the price of individual major equipment item wise in addition to the turn-key amount offered by the selected bidder.**

PART-II: SCOPE OF INCIDENTAL SERVICES:

- A. Dismantling, shifting and successful re-installation of existing machines & Installation, Commissioning, Demonstration, on-site training, Performance Supervision of on-site assembly, Start-up of the supplied Goods.
- B. The bidder shall impart education and training to upgrade the skills of the medical professionals at various levels for which a tentative programme shall be submitted.
- C. Detailed Operations and Maintenance Manual for each appropriate unit of the supplied Goods are to be provided by the successful bidder.
- D. Providing and fixing Ceramic glazed wall tiles (Somany / KIajaria / NTC – Make or equivalent standard make) 300 x 200 mm size on the base of 12mm thick cement mortar (1:3) after demolishing old plaster all complete with all taxes as per specification and direction of user.

SCHEDULE-3

DETAIL TECHNICAL SPECIFICATIONS OF C.S.S.D. EQUIPMENTS

Horizontal Sterilizer 600 Ltr. With Accessories

(a) Door:

The sterilizer supplied should be pneumatically (Compressed Air) operated single door with fully automatic vertical sliding movement along with door safety features.

Door Safety Systems:

1. Pressure sensor system should be available in the chamber to monitor the chamber pressure. Chamber should be completely depressurized before the door seal is retracted by vacuum.
2. Door chamber should not be opened when chamber is pressurized.
3. A cycle should not start if the door is open or not properly locked.
4. The door seal should be made of silicone rubber gasket & on commencement of the process the door gasket is pressed against the door by steam pressure to ensure that the door remains closed during the process.
5. The door should be pneumatically operated for trouble free operation

(b) Construction :

1. **Chamber & Doors:** The chamber and doors should be made of solid, high quality 316L Stainless steel. The chamber should be jacketed to ensure the temperature uniformity in chamber. The chamber floor is slightly sloped towards an internal drain to facilitate drainage. A stainless steel mesh strainer should be provided to protect the drain port from blockage by debris. The chamber is mounted on a stainless steel framework with height adjustable feet. Chamber should have warranty for 10 years
2. **Surface Treatment:** The internal surface should be electro-chemically treated for high quality smooth finish to facilitate cleaning. The resultant surface should be polished to less than 0.8 µm fineness to protect against corrosion. The internal corners should be rounded off to facilitate efficient cleaning.
3. **Insulation:** The sterilizer jacket and door should be completely insulated with mineral rock wool to keep the autoclave cool on the outside. The insulation should be completely encased in a rigid removable sheet housing.
4. **Jacket:** The jacket should be made of 316L quality stainless steel. The chamber should have a warranty for 10 years.
5. **Steam Generator:** The sterilizer should have inbuilt steam generator of adequate capacity. It should be mounted under the sterilizer chamber & should be made of 316 quality stainless steel. The steam generator should have insulation of thick chloride free mineral rock wool with rigid aluminium sheet housing. It should have a built in thermostat, pressure safety valve & water level glass gauge inspection device visible from service area. The heating element, not less than 36KW should also be made of stainless steel.
6. **Compressor:** Compressor should be included in the offer.

(c) PIPES VALVES & COMPONENTS:

1. The piping system should be made of S.S. 316 quality. All the process valves should be stainless steel & should be pneumatically operated piston valves for longer trouble free operations. All the non standard components should be non proprietary & should be easily sourced. All the hot pipes should be properly insulated. Only the safety valves should be made of brass.
2. Primary piping & fittings should be stainless steel threaded or stainless steel triclamp fittings.
3. Primary components: 316 quality triclamps or threaded fitting components like – Manual valve, non return valve, pressure regulator, pneumatic valves, and steam trap etc.
4. Electrical Components: the terminals & contractors should be housed in a water tight cabinet while the other electrical component should be directly mounted on sterilizer.

- (d) **Air Filter:** A disposable air filter should be provided for filtering the atmospheric air before entering inside the chamber. The filter separation efficiency should be higher than 99.998% for particle size less than 0.3µm. Two spare filter element should be enclosed with the supply.
- (e) **CONTROL SYSTEM:**
1. The control system should be microprocessor based PLC system specially design for sterilization application. Control system should have colour display interface at operator loading side while it should have normal interface at unloading side. Apart from main PLC based control system the sterilizer should also have additional independent monitoring & documentation system which constantly cross checks the safety systems & time
 2. Multiple password access levels (specify number) should be provided to control access/operation of the machine preventing unauthorized access. These access levels should be user selectable.
- (f) **ALARMS:**
Automatic process checking & failure correction should be possible by the control system. The range of alarm should include over Temperature , pressure sensor failure, phase time-out, doors not properly closed, power failure (less than 10 sec should be ignored), Continuous self checking of all the safety devices, low water level etc should be possible. All the alarms should be audio and visual.
- (g) **Loading/Unloading system:**
Sterilizer should have the two rails for easy loading, shelf rack with shelves (carriage), two set of fixed height loading/unloading trolleys. The rails should be of removable type to have the flexible future loading options.
- (h) **CYCLE DOCUMENTATION – PRINTER:**
The autoclave should be equipped with an alpha-numeric printer which prints the each cycle parameter performed by the sterilizer. Prints should not get erased after a short while. Hence laser printer preferred. The measured values of temperature and pressure are printed at fixed time intervals, according to various phases of the sterilization process such as 4 minute time interval for vacuum, 1 minute time interval for sterilization, and the start and end time of the drying phase. All these time intervals should be user defined. Vendor should supply customized time intervals as desired by the user prior to order delivery.
- (i) **WATER SAVING SYSTEM:**
Sterilizer should have system for water saving to limit the water usage minimum. Specify water consumption levels.
- (j) **VACUUM PUMP:**
High capacity liquid vacuum pump for removal of air within the chamber should be provided & mounted on vibration isolator for quite operations. It should be connected to series of condensers to assist air removal & protect it from high temperatures. It should also have low water level alarm to protect it from dry run. This vacuum pump should be efficient, reliable and long-lasting.
- (K) **Available Cycles:**
The sterilizer should work with various programs which are user selectable. Apart from standard cycles, special cycle should be programmed by an authorized supervisor code only.
- (l) **Programs include:**
1. Wrapped Instruments, Porous load 134⁰ C
 2. Heat Sensitive material, rubber, plastic, porous load 121⁰ C
 3. Rapid cycle for single open instrument
 4. Heavy load cycle
 5. Bowie & Dick test (7 Kg), PCD test
 6. Leak test
- (n) Should be FDA/CE/BIS/ISI approved system. Certificate should be submitted along with bids.

- (o) Should be compliant to ISO 13485: Quality systems - Medical devices - Particular requirements for the application of ISO 9001 applicable to manufacturers and service providers that perform their own design activities
- (p) **Documentation**
 1. User manual -02 nos
 2. Service manual in English -02 nos
 3. Certificate of calibration and inspection from factory.(validation program desirable)
 4. List of important spare parts and accessories with their part number and costing.
 5. List of Equipment available for providing calibration and routine Preventive Maintenance Support. as per manufacturer documentation in service/technical manual.

Horizontal Autoclave (Double door, Automated)

1. **Chamber dimension:** 660 X 950 X 1524mm (WxHxD) approximately (**Volume 900 to 1000 Litre**).
2. Fully automatic Double door, double jacketed chamber made 316L/ 316Ti St. Steel Front loading.
3. Having nickel clad steel two manual/sliding doors with Grade 316 stainless steel, with St. Steel hinges and warranted long life with non-lubricated steam activated door seal (gasket).
4. Having pre-programmed operational parameters which can be set for specific applications by the user and having emergency manual exhaust valve.
5. Having electronic water saving control – condensing the exhaust chamber steam with excellent drain system designed to prevent pollutants to enter water supply & sterilizer
6. All interrupts and failures must be indicated through audiovisual alarms and recoding of event.
7. Provide for operator and system safety.
8. Sterilization Temperature ranges 121°C, 132°C to 134°C, pressure 15 psi to 60 psi. Should have Thermostat.
9. Microprocessor controlled steam under pressure. Inbuilt vacuum pump and steam generator providing quality steam i.e. condensate free, 97 to 100% saturated vapour complete with piping; valves and pressure relief. Automatic Water filling and its level indicator. Automatic steam release after sterilization. Safety valve testing.
10. Approx. 7” Multi-color touch screen panel. LED/LCD control/ display with battery backup and printer as standard for record keeping with storage capacity of approx. 200 cycles in built-in memory. Cycle time adjustable and not be more than 60 minutes.
11. The touch screen panel should include various pressure and temperature display gauges for depiction of actual pressure/ temperature in chamber, jacket and on gasket.
12. Autoclave should be able to perform Bowie and Dick test and vacuum leak test.
13. Equipped with 121 degree pre-vacuum; 134degree Flash/Express cycles , 134 degree Pre-vacuum and additionally 121degree Gravity cycle for wrapped goods.
14. Auto-venting system expels air and unsaturated steam from chamber to get effective steam pressure, Furthermore, an air filter of 99.9% performing efficiency to prevent contaminated air from entering into the chamber. Automatic cycling and drying and indicating completion both, visually and audibly.
15. A cycle cannot start if the door is open or not properly locked.
16. The door cannot unlock until chamber pressure reaches room pressure.
17. Sliding Door Safety - The sliding door progress should automatically stop if an obstruction is detected.
18. Double Door Safety – interlocks prevent both doors from being opened simultaneously.
19. Advanced operation features should include a multipurpose valve that can function as a backup in case of power failure, or an automatic shutdown or restart feature that economizes on energy.
20. Clean steam options include: clean steam generator, stainless steel piping, components and fittings, and high grade stainless steel chamber.
21. Accessories must include Loading Carts and Transfer Carriages. The adjustable loading cart rolls from the transfer carriage onto the interior chamber tracks for easy handling of heavy loads. The trolley should be equipped with revolving wheels, wheel brakes and carriage lock.
22. Sterility assurance consumable products and compatible validation process should also be provided with supplies of following for two years 2000 cycles (average 4 cycles per day for 250 working days in a year): Bowie Dick Test Packs=100no.s; Biological Indicators=500 no’s, Chemical Indicators TST Emulating-20,000 no’s, Biological Indicator activator and Incubator Machine with each unit.
23. The product should be FDA/CE/BIS/ISI approved
24. Multiple access levels and user passwords to control access/operation of the autoclave.
25. Electrical Service – 440 V,50 Hz, 3phase.
26. The manufacturing firm should have spares availability in India and must have own trained service engineers based in India.
27. Two year warranty and one year AMC free.

28. Diagnostic In/Out test (enables technician to check each system component separately).
29. Documentation Package. A full documentation package include: Installation Qualification (IQ), Operation Qualification (OQ), Performance Qualification (PQ).

Table Top Sterilizer 20-25 Lts, With Accessories:

- 1 **Sterilizer Type:** Table Top Sterilizer.
- 2 **Capacity:** 20-25 liters
- 3 **Chamber Size:** The sterilizer should have Rectangular/Cylindrical chamber with suiting the volume for maximum processing capacity per charge.
- 4 **Quality System Compliance:** Sterilizer should comply the quality systems as per ISO 9001:2000, EN ISO 13485:2003, and ISO 14001:2004.
- 5 **Quality Assurance:** Sterilizer should be CE or FDA or BIS Certified
- 6 **Types of Cycles Process:** Table Top Sterilizers should be equipped with B-process as per latest international standards
- 7 **Chamber:**
 - Should be made of S.S.316 & should comply the Pressure Equipment Directive (PED) & EN 13445 norms or equivalent
 - Chamber should have minimum 5 years warranty or should confirm 44-50,000 process minimum life.
 - Chamber should have working pressure 2.2 bar & design pressure upto 3.8 bar.
 - Chamber should have Stress & Fatigue analysis reports for material & construction of the pressure vessel.
 - Chamber should be equipped with electrically heated jacket for preheating on stand by mode.
- 9 **Door Design:** Should have horizontal sliding/Hinged door with silicon elastomer rubber gasket to withstand temperature upto 140°C.
- 10 **Air Filter:** An disposable air filter should be provided for filtering the atmospheric air before entering inside the chamber. The filter separation efficiency should be higher than 99.998% for particle size less than 0.3µm.
- 11 **Cycle programs:**
 - 134°C Wrapped & Unwrapped
 - 121°C Wrapped & Unwrapped
 - 134°C Flash/Rapid open instrument cycle.
 - 134°C Textile.
 - 134°C Prion.
 - Test programs : Bowie & Dick, Leak Test, Helix Test
- 12 **Water Storage Tank:** Sterilizer should have inbuilt water reservoir with storage capacity up to 5 Liters. The water reservoir should have easy access for cleaning & to avoid bio film.
- 13 **Steam Generator:** Sterilizer should have inbuilt steam generator with warranty of 3 years on heating elements. The steam generator design should be with integrated energy storing system for building up power for sterilization loads in short time.
- 14 **Control Panel:** The control system should be microprocessor based PLC system specially designed for sterilization applications. The control system should have CPU processor with battery

back-up, Digital input/output controls, analog measuring inputs & COM ports for printer & PC connectivity.

- 15 **Alarms:** Automatic process checking & failure correction should be possible by the control system. The range of alarm should include Temperature & pressure sensor failure, phase time-out, doors not properly closed, power failure (less than 10 sec should be ignored), continuous self checking of all the safety devices, low water level etc. All the alarms should be audio-visual.
- 16 **Accessories:** The sterilizer unit should include Rack with 3 levels & suitable size instrument trays should be the part of the supply for every sterilizer. The Sterilizer should have water circulation system so that no drain point & fixed water inlets required.
- 17 **Standards & Norms:** The sterilizer should must comply the following standards, ISO 9001:2000 (Quality Systems), ISO 13485:2003 (Quality Systems for Medical Devices), ISO 14001 (Environment Management System), .The product should be FDA/CE/BIS/ISI approved.
- 18 **Electrical Requirements:** 230V, 50 Hz.

Heat Sealing Machine-Manual:

The unit should have manual heat adjustments

- System should be suitable for the sealing of surgical instruments in paper envelopes.
- Should be microprocessor controlled.
- Smooth easy cleaning surfaces.
- Quick sealing time with sealing width of 12mm.
- It should be a compact table top system.
- Ergonomic handling with anti fatigue movement.

Heat Sealing Machine- Rotary / Automatic:

Rotary heat sealers should provide validated sealing (as per DIN 58953T7 with manufacturing certificate) of sterilization bags and clear-view pouches (paper/plastic laminate).

- These through feed-type sealers should be microprocessor-controlled for highest capacity and ease of operation.
- The rotary heat sealer should give documentation of process parameters via an integrated printer and could be integrated with documentation system. There should be a provision of serial interface for PC (RS 232).
- The ergonomically design should be tilted forward for increased user convenience and space saving installation.
- The sealers should be built and tested in accordance with EU safety norms and German TUV norms.
- The sealer housing should be powder-coated and the control panel is of the flat-membrane type, for easy cleaning.
- It should be operationally simple. When a bag is fed into one side of the machine, the machine should start automatically or by pushing a button, moving the bag through the machine, and applying pressure and heat to form a perfect seal.
- The warm-up time should not exceed 30 seconds, and the feed speed should be approx. 10 m/min.
- The temperature should be adjustable from 50–200°C with a tolerance of 1% of the set value.
- It should be regulated by a heating element that is highly sensitive to temperature fluctuations, assuring even temperature and perfect seals.
- It should offer a number of additional features, including:
 - o automatic start-up
 - o reverse feed function in case an instrument accidentally enters the sealing area
 - o energy-saving stand-by mode
 - o pre-set temperatures

- o re-settable counter function
- Rotary heat sealers come with a port and cable for connection of the sealer to a PC and printer, enabling monitoring and documentation of the entire process.
- Should have a protection mechanism against overheating and start prevention at temperature deviations outside +/- 5° C tolerance.
- Rotary heat sealer should be CE or FDA or BIS-marked.
- Please provide specifications, features and details of parameters like heating time (sec), Width of seal (mm), speed (m/min), Temperature settings (°C), seal-edge (mm), automatic start of drive belt, accessories like external label printer with connection cable and paper guide, choice of English language and pressure control, automatic temperature reduction function and re-settable counter etc. of the model offered in the quotation.

Loading / Unloading Carriage Trolley s. s.:

Suitable for operation with autoclave comprising the following –

- Frame and top completely made in SS adaptable with transfer carriage.
- Two fixed and two swiveling castors of diameter not less than 100MM with brake.

Closed Transport Trolley:

Area : Sterile Store to OT

Size : 1500x750x1260 mm

- A trolley for sterile goods handling where higher than normal dust protection is required, e.g. short transports between hospital buildings. Suitable for handling baskets or containers with a total capacity of 9 STU (1 STU = 600 x 300 x 300 mm) on three solid, removable shelves (3 x 3 STU).
- Trolley should be fitted with large stainless steel wheels (Ø 160 mm) for easier maneuverability.
- Two fixed wheels and two swivel wheels with brakes.
- The fully welded stainless steel construction (minimum 18 gauges, 304) makes it suitable for cabinet washers. The doors open 270° for easy access and cleaning.
- Trolley should have lockable doors and should include handlebars.

Instrument Tray

Area : Various movement

Size: 480x250x70 mm

- It should be modular design with standard sizes and high precision and should be designed for use with modular wire baskets through all phases of instrument processing: washing and disinfection (both manual and in an automatic washer-disinfector), ultrasonic cleaning, inspection and packing, sterilization, storage, distribution and usage.
- It should be self-drying after disinfection in hot water (min.+85°C)
- Instrument trays should be sturdy, jig-welded trays maintain their size and shape even if handled carelessly.
- It should be stackable.
- The tray is made of stainless steel (304) wire net, with a maximum mesh size of 6.5 mm and a wire diameter of 1.5 mm. This design gives optimal cleaning results and at the same time prevents instruments from penetrating the sides of the tray.
- All cross-points in the network and vertical wires to top and bottom frames should be point welded. All free wire ends should be soft-polished to prevent injury when handled.
- The bottom wire construction should include a rigid, 3 mm diameter, stainless steel (304) wire frame to provide space for airing between goods and work surface and to allow use on roller, belt and chain conveyors.
- It should be electro-polished for smooth, clean surfaces and also suitable for ISO modular wire baskets.
- It should be with lid and handle.

GAUZE CUTTING MACHINE:

- O Should be useful in cutting thickest of cotton gauze material

- o Should consist of a cutting unit and a knife sharpening unit
- o Blade size : 200 mm
- o Cutting Capacity: 165 mm
- o Should work on 230V,50 Hz power supply.

STORAGE RACKS:

- Open racks should be made of stainless steel
- Storages with highly durable, and should have narrow holes for allowing ventilation
- Should be water resistant, disinfectant resistant and rust proof.
- Should be provided with lockable castors
- Should have warranty for three years.
- Approx. Dimensions: L x W x H : 180cm (H)x45 cm (W) x75cm(L)

Wash Stations with 2 sinks:

Area: Cleaning and Disinfection

Size (LxWxH) : 2000x750x850 mm

- The worktop should be made of solid, bright-polished minimum sheet thickness of 1.5 mm stainless steel (304) to withstand heavy-duty work with wet instrument.
- Designed with an integrated 10 mm high edge at the front and sides, and a 60 mm high edge (splash back) at the rear.
- The front and side edges are reinforced and widened to 49 mm. Edges are welded together and polished at the corners.
- The worktop should slope to the sink, and reinforced by a full-length support frame.
- The support frame should be a complete assembly with the front, back and ends welded together at the corners.
- The worktop and support frame should be bonded together with double-adhesive tape of a special, age-resistant quality to give rigidity and noise abatement.
- The floor stand should be made of polished stainless steel.

Details of Electrical Panel:

Work Schedule of LT Electrical Power Distribution			
S.N.	Item Description	Oty.	Unit
1	<p>Main Power Distribution panel - Supply , installation, testing & commissioning of power distribution panel, floor mounting, free standing, dust & vermin proof. Fabricated of 2mm thick CR sheet, internally wired for control circuits and duly powder coated and power connection with suitable size Al. strip with A/M, V/M Indication Lamp & CT, S/S, Protection fuse etc, including following</p> <p>a) Bus bar shall be TPN type, PVC insulated, Electrolytic grade, suitable capacity Aluminium strips</p> <p>b) All interconnections of switchgears shall be with suitable size PVC insulated Electrolytic grade Aluminium strip.</p> <p>Power distribution circuits with MCCB</p> <p>a) Main incomer - 315 Amp. MCCB 4 pole - 1 no</p> <p>b) Bus bar 400A TPN type, PVC insulated, Electrolytic grade, Aluminium strips</p> <p>c) <u>Outgoing feeders</u></p>		
	63 Amp - MCCB TPN - 4 nos.	1	job
	5/15 A: As per requirement.		

TURNKEY JOBS: (to be included in the technical bid):

The Hospital authorities will provide adequate space in an already existing building for setting up of the CSSD in the Hospital Campus. The bidder should inspect the proposed site and submit a tentative plan for CSSD Plant in the Technical bid, only after verifying the necessary renovations and additions. The space should have provision for future expansion.

The **Turn-key job** will include the following:

1. Civil works for necessary alteration and renovation of the area to be used for the said purposes, which may need floor and wall treatment with anti bacterial coating, plumbing and all other necessary alterations in the existing space (top be used).
2. Internal Electrical works with exhaust and ceiling / wall fans..
3. A detail floor plan of the CSSD installations must be submitted with the technical bid.
4. **Warranty for all equipments for 3 (three) years.**
5. **Annual Maintenance Contract / Comprehensive Annual Maintenance Contract of complete area for next seven years after expiry of warranty period of three years.**
