TENDER DOCUMENT

e-TENDER No.: ERO/MMD/731/1104

Tender for the “Supply, Storage, Installation, Testing, Commissioning and Handing over of Central Sterilization & Stores Department (CSSD), Bio Medical Waste Management (BMW) and Mortuary for Medical College and Hospital at Sundergarh Odisha”.

VOLUME – II

Additional Purchase Condition (APC), List of Approved Make, Technical Specification & Drawing

ENGINEERING PROJECTS (INDIA) LIMITED
(A GOVT. OF INDIA ENTERPRISE)
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Additional Purchase Condition (APC)

1.0 General

The Additional Conditions shall be read in conjunction with General Purchase Conditions. Where the provisions of these Additional Conditions are at variance with the provisions of the General Purchase Conditions of Contract, the provisions of these Additional Conditions shall take precedence.

2.0 Commencement and Completion of Project

The Contractual Completion Period shall be Four (4) months from the tenth (10th) day of issue of Letter of Intent of Acceptance of Tender.

3.0 Suppliers Confirmation

The Supplier(s) / tenderer(s) whose tender(s)/bid(s) are accepted hereinafter are called the supplier(s).

4.0 Language

All correspondence, drawings and notations relating to this Contract must be in English.

5.0 References

In case of conflict, the more stringent requirement will apply unless ruled otherwise by EPI/NTPC.

6.0 Order of Precedence

In case of ambiguity in Bill of Quantities, Additional Purchase of Conditions, Specifications, General Purchase Conditions, the following order of precedence will prevail.

1) Bill of Quantities
2) Additional Purchase Conditions / Corrigendum
3) Specifications
4) General Purchase Conditions

7.0 Conflict in Documents

If there are varying or conflicting provisions made in anyone document forming part of the contract, the Engineer-in-charge of EPI shall be the deciding authority with regard to the intention of the document and his decision shall be final and binding on the Supplier.

8.0 Price: The following shall be also read with clause no 03 of GPC:

The rates/amount quoted in the Schedule/Bill of Quantities shall be inclusive of all taxes, duties, cess, levies, fees, royalty, etc, except Goods and Service Tax (GST).

The percentage of rate for Freight Charges and Insurance for all BOQ items shall be quoted separately in the respective quoting sheet.
9.0 Security Deposit Cum Performance Guarantee

Clause 9.0 & 18 of GPC stands deleted and shall be read as below.

“Within 10 (ten) days from the date of issue of letter of intent or within such extended time as may be granted by EPI in writing, the supplier shall submit to EPI a Security Deposit cum Performance Bank Guarantee in the form appended, from any Nationalized bank / Scheduled Bank equivalent to five percent only (5%) of the Contract Value for the due and proper execution of the contract. This bank guarantee shall remain valid up to ninety (90) days after the end of defects liability period.

In case the supplier fails to submit the Security Deposit cum Performance Guarantee of the requisite amount within the stipulated period or extended period, letter of intent shall stand withdrawn and EMD of Supplier shall be forfeited.

10.0 Registration

The SUPPLIER confirms that it holds EPF Code number, GSTN registration at the state of Odisha, PAN (Permanent Account Number of Income Tax) etc. and shall be responsible for depositing EPF subscription and contribution for labour and staff employed by it on the works and GST, other taxes, duties and dues etc. as per statutory requirements and documentary evidence of same shall be provided to EPI. The SUPPLIER shall also be responsible for labour welfare and for arranging labour and other licenses/permits/clearance etc. for the project at their own. The SUPPLIER shall comply with all the requirements as per labour laws/acts. All the records in this regard shall be maintained by the SUPPLIER as per statutory requirements and rules and shall be produced by the SUPPLIER on demand if required. In case, the suppliers do not have PF Registration No. &GSTN (in the state of Odisha) registration, the same shall be obtained by successful suppliers within one month from the date of LOI or before release of First RA Bill.

11.0 Taxes and Duties

The award of the Contract shall be on ‘Work Contract’ as defined in section 2 (119) of the CGST Act, 2017. The rates/amount quoted in the Bill of Quantities shall be inclusive of all taxes, duties, cess, levies, fees, royalty, etc, except Goods and Service Tax (GST). The Goods and Services Tax (GST) applicable on all items of Works described in the Bill of Quantities, shall be quoted separately in attachment entitled “Annexure- I - Taxes & Duties” in Vol. III.

The GST quoted by the bidder shall be as applicable in India as on seven (7) days prior to the deadline for submission of Techno-Commercial Bids. Due Input Tax credits under GST as per the relevant Govt. Policy, wherever applicable, shall be taken into account by the Bidder while quoting his price. Income Tax and other Deductions of Taxes as applicable shall be deducted from Bills / due payment of the Supplier.

EPI shall bear and pay/reimburse to the bidder Goods and Services Tax (GST) applicable on the value of Works Contract described in the Bill of Quantities. However, the taxes, duties & levies as may be applicable on the materials used for Works Contract shall be to the bidder's account and no separate claim in this regard will be entertained by EPI. Further, in case of any variation in the rates of the GST after the date seven (7) days prior to deadline set for submission of the Techno-Commercial bids, the same shall be paid/ reimbursed to/ recovered from the bidder subject to submission of documentary evidence.
If a new tax, duty or levy is imposed under statute or law in India after the date seven (7) days prior to the date of Techno-Commercial bid opening and the successful bidder becomes liable there under to pay and actually pays the said new tax, duty or levy for bonafide use on the Works contracted, the same shall be reimbursed to the successful bidder against documentary evidence of proof of payment.

The Supplier shall, within a period of 30 days of the imposition of any such new tax, duty or levy give a written notice thereof to the Engineer-in-Charge of EPI that the same is given pursuant to this condition, together with all necessary information relating thereto.

The payment/reimbursement of statutory variations in the rates of tax and/or of new tax, duty or levy imposed under statute or law in India as per above, would be restricted only to direct transactions between the EPI and the successful bidder.

- a. It shall be incumbent upon the successful bidder to obtain a registration certificate under the GST Law, and other law(s) relating to levy of tax, duty, cess etc. and necessary evidence & GSTIN number to this effect shall be furnished by the successful bidder to the EPI.

- b. The successful bidder must submit as an compliances of GST Act, the invoices in GST compliant format failing which the GST amount shall be recovered / adjusted by EPI without any prior notice from the next invoices or available dues with EPI.

- c. The successful bidder should update /upload the GST/Taxes data periodically so as to avail ITC credit by EPI failing which it shall be recovered / adjusted by EPI without any prior notice from the next invoices or available dues with EPI.

- d. The rates/amount quoted in the Schedule of Quantities shall be inclusive of all taxes, duties, cess, levies, fees, royalty, etc, except Goods and Service Tax (GST).

- e. Bidder while quoting the rates in the tender must also consider the ITC Credit applicable for the works, if any.

12.0 Insurance
Clause 5 of GPC stands deleted and shall be read as below.

Supplier is required to take Contractor’s All Risk Policy or Erection All Risk Policy (as the case may be) including Marine Insurance from an Approved Insurance Company in the joint name with EPI and NTPC and bear all costs towards the same for the full period of execution of works including the defect liability period for the full amount of contract against all loss or damage from whatever cause arising for which he is responsible under the terms of the contract and in such manner that EPI and the Supplier are covered during the period of execution of works and/or also covered during the period of defect liability for the loss or damage as under:-

- a) The work and the temporary works to the full value of such works.

- b) The materials and other things brought to the Site for their full value.

Supplier shall submit to EPI copies of all such insurance policies and receipts for payment of current premium and also whenever required by EPI the Supplier shall produce the original policy or the policies of insurance and the receipts for payment of the current premiums.
INSURANCE UNDER WORKMEN'S COMPENSATION ACT

Supplier is required to take insurance cover as per requirement of the Workmen’s Compensation Act, 1923 amended from time to time from an Approved Insurance Company and pay premium charges thereof. Supplier shall submit to EPI copies of all such insurance policies and receipts for payment of current premium and also whenever required by EPI the Supplier shall produce the original policy or the policies of Insurance and the receipt of payment of the current premiums.

THIRD PARTY CONTRACTOR INSURANCE

Supplier is required to take third party CONTRACTOR insurance cover for an amount of five percent (5%) of Contract Value from an Approved Insurance Company for insurance against any damage, injury or loss which may occur to any person or property including that of EPI, and NTPC arising out of the execution of the works or temporary works. Supplier shall submit to EPI copies of all such insurance policies and receipts for payment of current premium and also whenever required by EPI the Supplier shall produce the original policy or the policies of insurance and the receipt of payment of the current premiums.

In case of failure of the Supplier to obtain insurance for works, insurance under Workman Compensation Act and Third Party CONTRACTOR insurance as described above within one month from the date of commencement of work, running account payments of the Supplier shall be withheld till such time the aforesaid insurance covers are obtained by the Supplier.

13.0 Compliance to statutory rules

The SUPPLIER shall ensure compliance with all Central, State and Local Laws, Rules, Regulations etc. as applicable or may be applicable during the course of execution, maintenance etc. of the works and shall indemnify against any claim or damages whatsoever on such accounts. The SUPPLIER shall also keep EPI/NTPC indemnified at all times against infringement of any Patent or Intellectual Property rights.

14.0 Measurement of Work Done

Engineer-in-charge shall, except as otherwise provided, ascertain and determine measurement and the value in accordance with the contract work done.

All measurement of all items having financial value shall be entered in Measurement Book so that a complete record is obtained of all works performed under the contract.

All measurements shall be taken jointly by EPI and by the Supplier or his authorized representative and such measurements shall be signed and dated by EPI and the Supplier in token of their acceptance. If the Supplier objects to any of the measurements recorded, a note shall be made to that effect with reason and signed by both the parties.

If the Supplier or his authorized representative does not remain present at the time of measurements after the Supplier has been given a notice three (3) days in advance or fails to countersign or to record objection within a week from the date of the measurement then such measurements recorded in his absence by EPI/NTPC shall be deemed be accepted by the Supplier.

The Supplier shall, without extra charge, provide all assistance with every appliance labour and other things necessary for measurements and recording.
EPI/NTPC may cause to check the measurement recorded jointly or otherwise as aforesaid and all provisions stipulated herein above shall be applicable to such checking of measurement.

It is also a term of this contract that recording of measurements of any item of work in the measurement book and/or its payment in the interim, on account or final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the Supplier from liabilities from any over measurement or defects noticed till completion of the defects liability period.

15.0 Documents to be submitted along Bill/Invoice

Following documents shall be enclosed along with each bill for submission otherwise the same shall not be accepted by EPI for checking and certification of payment.

a) Monthly progress reports in the format as issued by EPI/NTPC– the Sample report is available with EPI/NTPC for Supplier’s reference.

b) Safety measurement certificate.

c) Manufacturer’s Test Certificates.

d) All the information/documents contained in relevant checklists.

Formats shall be provided to the Supplier by EPI.

16.0 Payment Terms

Clause 4.0 of GPC stands deleted and shall be read as below.

Unless otherwise agreed upon between the parties payment on receipt of materials at site / store and on submission of separate bills/invoice for each stage/part payment as below by a cheque or demand draft or RTGS in accordance with the following procedure.

16.1 Seventy-five percent (75%) of the BOQ rate of the item/ equipment/ material shall be paid on receipt of the same at site, and on production of Inspection Report issued by the Inspector (incase inspection is done at manufacturing unit), Manufacturer’s Test Certificate, consignment note, and Interim Joint Inspection report after proper Storage at site and submission of Indemnity Bond in the prescribed pro-forma.

16.2 Twenty percent (20%) of the BOQ rate of the item/ equipment/ material shall be released after assembling, installation, testing & commissioning and final inspection.

16.3 Balance five percent (5%) of the BOQ rate of the item/ equipment/ material shall be released within 30 days after expiry of the DEFECTS LIABILITY PERIOD as per Clause No. 36 of APC.

17.0 Price Escalation

No Price Escalation is admissible.

18.0 Additional / Extra Items

The following procedures shall be meticulously adopted in case of any additional / extra items.

a) EPI shall issue a Contemplated Change Notice (CCN) in the format enclosed as Annexure-VII.
b) Based upon the requirement stipulated in CCN Supplier shall submit analysis to reflect financial implications if any, within seven (7) days from issue of CCN. The price analysis shall be based upon rates given in bill of items for the similar works or can be derived on the basis of basic rate of material and labour appended with annexure.

c) After review and approval of analysis by Engineer In-charge of EPI / NTPC, Change Order shall be issued by EPI in the Change Order format enclosed as per the Annexure-VIII to enable Supplier to execute item.

d) For substitute items Supplier shall produce price analysis for the approval of EPI / NTPC and adjustment in the contract amount accordingly. No overheads and profits shall be applicable against substituted items.

19.0 Variation

The variation limit shall be ± 10% of the total Contract value for Contract items and similar nature and specification at the same accepted rate. The limit of variation for individual BOQ item is ± 25%.

20.0 Alterations, Additions and Omissions

EPI / NTPC can make any variation of the form, quality or quantity of the works or any part thereof that may, in their opinion be necessary and for that purpose, or if for any other reason it shall in his opinion be desirable, they shall have power to order in writing to the Supplier to do and the Supplier shall do any of the following:

a) Increase or decrease in the quantity of any work included in the contract in which case the value of contract may be increased or decreased.

b) Omit any such work.

c) Change the dimension of any part of the works and

d) Execute additional work of any kind necessary for the completion of the works and no such variation shall in any way vitiate or invalidate the contract, but the value, if any of all such variations shall be taken into account to ascertain the amount of the Contract Price.

e) The Supplier shall not affect any of the aforementioned changes without the written order of EPI / NTPC.

21.0 Deviation, Extra items pricing

In the case of extra items, the rate analysis submitted by the Supplier as per above Clause 18.0 of APC, the Engineer-In-Charge of EPI shall within one (1) month of the receipt of the claims supported by analysis, shall determine the rates on the basis of the market rates/other prevailing codes as approved NTPC in consideration to the analysis of the rates submitted by the Supplier, and the Supplier shall be paid in accordance with the rates so determined and approved.

22.0 Deviation, Substituted items, Pricing

In the case of substituted items, the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the aforesaid para.

a) If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted) the rate payable to the Supplier for the substituted item shall be the rate for the agreement item (to be substituted) so...
increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).

b) If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted) the rate payable to the Supplier for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).

23.0 Deviation, Deviated Quantities Pricing

a) In the case of contract items, substituted items, contract cum substituted items, which exceed the limits laid down in Clause -19.0, the Supplier may within fifteen days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis. for the work in excess of the above mentioned limits; provided that if the rates so claimed are in excess of the rates specified in the schedule of quantities the Engineer-In-Charge of EPI shall within one month of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the Supplier, determine the rates on the basis of the market rates/other prevailing codes as approved by NTPC and the Supplier shall be paid In accordance with the rates so determined.

b) The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work in excess of the limits laid down in Clause -19.0 and the Engineer-in-Charge of EPI shall after giving notice to the Supplier within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of receipt of the notice, revise the rates for the work in question within one month of expiry of the said period of fifteen days having regard to the market rates or current schedule of rate or other prevailing codes as approved by NTPC.

c) The Supplier shall send to the Engineer-In-Charge once every three months an up to date account giving complete details of all claims for additional payments to which the Supplier may consider himself entitled and of all additional work ordered by the Engineer-in-Charge of EPI which he has executed during the preceding quarter failing which the Supplier shall be deemed to have waived his right.

24.0 Compensation for delay

Clause 13.0 of GPC stands deleted and shall be read as below.

If the Supplier fails to maintain the required progress as committed/ or to complete the work and clear the site on or before the date of completion or extended date of completion, he shall, without prejudice to any other right or remedy available under the law to EPI on account of such breach, pay compensation as agreed the amount calculated at the rates stipulated below as EPI may decide (whose decision in writing shall be final and binding) on the amount of tendered value of the work for every completed day/month (as applicable) for which progress remains below that specified in schedule or that the work remains incomplete.

Compensation for delay of work is at the rate of One percent (1%) per week of delay to be computed on per day basis.

Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed ten percent (10%) of the contract amount.
25.0 Work subjected to audit

The work executed by the SUPPLIER shall be subject to audit and quality control checks from Quality Control Division & Technical audit of EPI/NTPC, inspecting Agency of the Client and Chief Technical Examiner of Central Vigilance Commission, Govt. of India. In the eventuality of any defect/sub standard works as brought out in the report or noticed otherwise at any time during execution, maintenance period etc., the same shall be made good by the SUPPLIER without any extra cost. In case the SUPPLIER fails to rectify the defect/sub-standard work within the time period stipulated by EPI/NTPC, necessary action as deemed fit shall be taken by EPI/NTPC and decision of EPI/NTPC shall be final and binding on the Supplier.

26.0 Action in case work not done as per Specifications

All works under or in course of execution or executed in pursuance of the contract shall at all times be open and accessible to the inspection and supervision of the Engineer-in-Charge, his authorized representative in charge of the work and all the superior officers, officer of the Quality Control Department of EPI / NTCP and of the Cabinet (Technical) Vigilance, the Supplier shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given to the Supplier either himself be present to receive orders and instructions or have a responsible agent duly authorized in writing, present for that purpose. Orders given to the Supplier's agent shall be considered to have the same force as they had been given to the Supplier himself.

If it shall appear to the Engineer-In-charge of EPI or his higher authority or his authorized subordinates in charge of the work or to the Cabinet (Technical) Vigilance or his subordinate officers, that any work has been executed with unsound, imperfect or unskilful workmanship, or with materials or article provided by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract the Supplier shall, on demand in writing which shall be made within the period specified by the Engineer-in-charge of EPI/NTPC all such materials or articles under complained of notwithstanding whether or not the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost.

In the event of the Supplier, failing do so within a period specified by the Engineer-in-Charge of EPI in his demand aforesaid, then the Supplier shall be liable to pay compensation at the same rate as under Clause -24.0 of APC of the contract (for non-completion of the work in time) for this default. In such case the Engineer-in-charge may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates as the competent authority may consider reasonable during the preparation of on account bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure and incidental items rectified, or removed and re-executed at the risk and cost or Supplier. Decision of the Engineer-in-Charge to be conveyed in writing in respect of the same will be final and binding on the Supplier.

27.0 Supplier Liable for Damages, defects during maintenance period

If the Supplier or his working people or servants shall break, deface, injure or destroy any part of building in which they may be working, or any building, road, road curb,
fence, enclosure, water pipe, cables, drains, electric or telephone post or wired, trees, grass or grassland, or cultivated ground contiguous to the premises on which the work or any part is being executed, or if any damage shall happen to the work while in progress, from any cause whatever or if any defect, shrinkage or other faults appear in the work within defect liability period after a certificate final or otherwise of its completion shall have been given by the Engineer-in-charge of EPI as aforesaid arising out of defect or improper materials or workmanship the Supplier shall upon receipt of a notice in writing on that behalf make the same good at his own expense or in default the Engineer-in-charge of EPI cause the same to be made good by other workmen and deduct the expense from any sums that may be due or at any time thereafter may become due to the Supplier, or from his security deposit or the proceeds of sale thereof or of a sufficient option thereof.

28.0 Schedule of Completion

Successful suppliers shall submit supply, assembly and placement schedule for all BOQ items within fifteen (15) days. It shall indicate the forecast (mile-stones) of the dates of commencement and completion of supply of items, trades, sections of the work and may be amended as necessary by agreement between the Engineer-In-Charge and the Supplier within the scheduled completion period (i.e. 4 Months).

29.0 Time Essence of Contract & Extension for Delay

29.1 The time allowed for execution of the Works as specified in “Memorandum” to the “Form of Tender” or the extended time in accordance with these conditions shall be the essence of the contract. If the Supplier commits default in commencing the execution of the work as aforesaid, EPI/NTPC shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the security deposit money absolutely.

29.2 If the work(s) be delayed by:

   a) force-majeure or
   b) serious loss or damage by fire, or
   c) civil commotion of workmen, strike or lockout, affecting any or the trades employed on the work, or
   d) delay on the part of other Suppliers or tradesmen engaged by Engineer-In-Charge in executing work not forming part of the Contract, or
   e) any other cause which, in the absolute discretion of EPI, is beyond the Supplier’s control, then, upon the happening of any such event causing delay, the Supplier shall immediately give notice thereof in writing to the Engineer-In-Charge but shall nevertheless use constantly his best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-In-Charge to proceed with the works.

Request for extension of time, to be eligible for consideration, shall be made by the Supplier in writing within fourteen (14) days of the happening of the event causing delay on the prescribed form and at least fifteen (15) days before the completion date. The Supplier may also, if practicable, indicate in such a request the period for which extension is desired. In any such case EPI may give a fair and reasonable extension of time for completion of work. Such extension shall be communicated to the Supplier by the Engineer-In-Charge in writing, within three (3) months of the date of receipt of such request. Non application by the Supplier for extension of time shall not be a bar for giving a fair and reasonable extension by the Engineer-In-Charge and the extension of time so given by the Engineer-In-Charge shall be binding on the Supplier.
30.0 **Codes**

In the absence of definite provision on particular issue in the specification / codes, reference may be made to relevant latest Codes recommended to be used and good engineering practices and / or as per instruction / suggestion of EPI / NTPC.

31.0 **Supplier’s Responsibilities during inspections**

   a) Furnish labour and facilities to:
      i) Provide access to work to be inspected and tested.
      ii) Facilitate inspections and tests.
      iii) Make good work disturbed by inspection and test.
      iv) Provide all test equipment required for carry out field tests.

32.0 **Inspection and Testing**

Clause 6.0 of GPC stands deleted and shall be read as below.

The stores/material covered as per this Work Order / Agreement shall be subject to preliminary inspection and testing at any time prior to shipment and /or dispatch and final inspection within a reasonable time after arrival at the place of delivery. The Inspector / Engineer In Charge shall have the right to carry out the inspection and testing which include raw materials at manufacturing unit and the material at the time of actual dispatch before and after completion of packing.

The supplier shall inform the EPI at least twenty one (21) days in advance, place, date and time of offering the stores/material for required inspection, provide free access to Inspectors during normal working hours at manufacturing unit and places at their disposal, internal test reports, material/component test certificates, approved drawings and all useful means of performing, checking, marking, testing, inspection and final stamping to be made available at his own expenses. Stores/material offered without internal testing and quality documents shall be treated as not ready for inspection.

If, after receiving inspection call from the Supplier, the inspector on reaching the works finds that the equipment /materials offered for inspection is not ready or fails to meet quality parameters, the inspection call will be considered to be a cancelled and material offered under the inspection call are treated rejected / disqualified.

The material shall be offered in lots and the inspector has liberty to choose randomly Inspection Samples from each lot for inspection. In the event of rejection of Inspection Samples due to defective workmanship /material /design, the entire lot is treated as rejected and should be offered for re-inspection at the earliest. EPI shall have the right to deduct the cost of re-inspection from the supplier’s invoices/bills.

Final inspection shall be carried out after unpacking, assembly (if any) and placing of the items/material.

Even if inspections and tests are fully carried out, supplier shall not be absolved to any degree from their responsibilities to ensure that stores/material supplied, comply strictly with requirements, of the purchase order at the time of delivery, inspection on arrival at site, after its erection or start-up and guarantee period.
In any case, the stores/material must be strictly in accordance with the Work Order / Agreement failing which EPI shall have the right to reject goods/material and hold the supplier liable for non-performance of contract.

EPI reserves the right to test any item or number of items to any government testing laboratory in India and the total cost for forwarding and testing of these materials will be borne by the bidder.

33.0 Testing Laboratory Services

All the inspection & testing charges to be carried at testing laboratory designated EPI/ NTPC shall be borne by the supplier.

34.0 Manufacturer’s Test Certificate

Clause 7.0 of GPC stands deleted and shall be read as below.

Manufacturer’s test certificate shall be submitted by the Supplier along with invoice / challan. Failure to comply may cause delay in release of payment.

35.0 Sub-standard Material

Any material/item/fitting/fixtures rejected by EPI / NTPC shall be removed from the site within forty eight (48) hours of issue of instructions to this effect by EPI. Failing this, the EPI shall have the rights to get these removed and the Supplier shall have no claim whatsoever in this regard.

36.0 Defects Liability Period

The Supplier shall be responsible for the rectification of defects in the works for a period of 12 (Twelve) months from the date of taking over of the works in totality by the Owner/ Client. Any defects discovered and brought to the notice of the Supplier forthwith shall be attended to and rectified by him at his own cost and expense. In case the Supplier fails to carry out these rectifications, the same may without prejudice to any other right or remedy available, be got rectified by EPI at the cost and expense of the Supplier.

37.0 Dispatch Instructions

Clause 10.0 of GPC stands deleted.

38.0 After sales service and training

Clause 11. of GPC stands deleted and shall be read as below.

The supplier shall provide necessary “After Sales Service” (for items supplied) free of cost to the satisfaction of the end user.

39.0 Approval of Engineer-in-charge

All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects by the Engineer-In-Charge who shall be entitled to specify time and the manner they are to be commenced, and from time to time carried on.
40.0 Approval from Client

The Supplier shall be responsible for obtaining all approvals from EPI/Client with regard to quality of materials & workmanship and measurements etc.

41.0 Suppliers Use of Sites

The Supplier is restricted to use the site without permission and shall obtain prior permission for entering the work premises or for use as per contractual works.

42.0 Storage of Material

The bidder shall make his own arrangement for storage of all materials at site including its safe custody, watch and ward, & damages etc. at his own cost till completion of the work and handing over of the same to EPI/NTPC.

43.0 Association with EPI

If desired by EPI, the Supplier shall be available / associate with EPI in meetings with Client for its portion of work at their own cost. The Supplier shall furnish all information and clarifications as and when required by EPI/NTPC.

44.0 Co-ordination with other agencies

This is a Percentage Rate base contract. Therefore, it shall be the Suppliers responsibility to ensure complete co-ordination between works of various agencies such as Civil, Electrical, Utilities, etc. It is deemed that the Supplier have considered this aspect carefully while quoting tender.

45.0 Site Meetings

Site meetings shall be held at regular intervals and in addition to other meeting required by EPI/NTPC. There shall be at least one site meeting per fortnight in the presence of EPI/NTPC to discuss and co-ordinate the work. The Supplier shall provide responsible member of his organization who is authorized to commit and bind the Supplier to any agreement reached during said meeting.

46.0 Non-interference with other works

The Supplier shall plan and execute the works in his scope of work in such a manner that the other works, connected with the works of the Supplier, but not included in the Supplier’s scope of work, do not get affected/delayed.

47.0 Local Manpower

Successful suppliers shall ensure maximum utilization of local manpower as for as possible.

48.0 Preservation of tree/vegetation

Existing trees and other forms of vegetation to be preserved by avoiding disturbance / damage due to activities.

49.0 Supplier to indemnify Govt. against Patent Rights

Signature of Contractor

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CSSD, BMW & MORTUARY
The Supplier shall fully indemnify and deem indemnified EPI/NTPC against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under the action brought against EPI/NTPC in respect of any such matter as aforesaid the Supplier shall be immediately notified thereof and the Supplier shall be at liberty, at his own expenses, to settle any dispute or to conduct any litigation that may arise therefrom, provided that the Supplier shall not be liable to indemnify EPI/NTPC if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Engineer-in-Charge of EPI/NTPC in this behalf.

50.0 Recovery

Any amount found recoverable from the Supplier shall be recovered without prejudice to any other mode of recovery.

51.0 Release of Security Deposit

The entire Security Deposit (SD) amount shall be released to the Supplier after Ninety (90) days of expiry of DEFECT LIABILITY PERIOD if all the defects are rectified by Supplier, raised during defect liability period.

52.0 Water Supply

The Supplier shall make their own arrangements for water required for construction as well as for drinking and other purposes for their staffs and labour and the personnel of EPI / NTPC.

53.0 Electricity

a) Supplier shall obtain temporary power connection from Local Authorities at his cost.

b) Supplier shall make his own arrangements for further distribution as per their requirement and cost of cables switches, fuses, meters etc. shall be borne by Supplier. It is to be noted that power from local authority may not be continuous and there may be possibilities of disruption of power. Hence Supplier shall install sufficient number of generators of adequate capacity duly approved by EPI/NTPC bearing all operating and installation.

c) EPI/NTPC reserves the right to supply power at mutually agreed rates as and when sufficient availability of same is attained.

54.0 Gate keeper & Watchman

The Supplier shall provide, maintain at his own expense gate keepers and watchmen to ensure at all times effective protection of the works, materials and workmen, until completion of the project, at his own risk and cost

55.0 Safety Measures

It shall be the sole responsibility of the Supplier to ensure all safety measures giving proper, prior notices etc. and obtaining prior permission from concerned local authorities as per bye-laws or directions issued by them at his own cost. No claim of the Supplier in
56.0 **Recovery against Labour Safety**

In respect of all labour directly or indirectly employed in the work for the performance of the Supplier’s part of this contract, the Supplier shall at his own expense arrange for the safety provisions as per CPWD Safety Code framed from time to time and shall at his own expense provide for all facilities in connection therewith. Failing which, necessary action as deemed fit shall be taken by EPI/NTPC.

57.0 **Sanitation/safety facilities for workers**

The Supplier shall adhere to guidelines laid down in the National Building Code of India 2005 for constructional practices and safety of workers Health and Sanitation facilities for workers/working residing on site. This shall include, but not limited to, safety equipment (safety helmets, jackets, boots, gloves etc), safety nets/harnesses, appropriate warning/safety signs, fire extinguishers, adequate light for working during evenings/nights, regular maintenance and repairs of machinery / equipments and adequate sanitation/potable drinking water facilities. The Acts and rules as stipulated by Govt. of India, enforced by the Chief Labour Commissioner (Central) (refer web site clc.gov.in) and revised time to time shall be applicable in case of any violations with respect safety.

58.0 **Supplier’s risks**

All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the contract other than the excepted risks are the responsibility of the Supplier.

59.0 **Warranty**

Clause 17. of GPC stands deleted and shall be read as below.

The supplier shall warrant that every material /plant, machinery and equipment to be supplied be new and free from all defects and faults in design, material, workmanship and manufacture and shall be of the highest quality.

The items should be consistent with the established, recognized or stipulated standards for material of the type usually used for the purpose and in full conformity with the specifications and drawings or samples, if any. Equipment offered must be capable, during operation, of withstanding extreme dusty, wet, humid and sultry conditions. The warranty shall continue not withstanding inspection, payment, acceptance of tendered equipment and shall expire except in respect of complaints notified to supplier prior to such date within 12 months from the date of Taking Over.

60.0 **House Keeping**

General:

a) Conduct cleaning and disposal operations to comply with local authority and antipollution Laws.

b) Store volatile waste in covered metal containers and remove from premises at the end of each working day.

c) Provide adequate ventilation during use of volatile or noxious substances. Use of building ventilation systems is not permitted for this purpose.
Materials:
For surfaces use only cleaning materials recommended by manufacturer and as recommended by cleaning material manufacturer.

Cleaning:
- a) Provide on-site containers for collection of waste materials and debris.
- b) Dispose waste materials and debris off site.
- c) Schedule cleaning operations so that resulting dust, debris and other contaminants will not fall on wet, newly painted surfaces nor contaminate building systems.

Final Cleaning:
- a) Remove grease, dust, dirt, stains, labels, fingerprints and other foreign materials, from finished surfaces including glass and other polished surfaces.
- b) Remove debris and surplus materials from crawl areas and other accessible concealed spaces.

61.0 Brand Name
The specific reference in the Specifications and documents to any material by trade name, make or catalogue number shall be construed as establishing standard or quality and performance and not as limited competition.

62.0 Submission of Manuals / Catalogues
Maintenance manuals, product catalogues, all warranties and guarantees against each section of work shall be submitted hardbound in triplicate on completion as per direction of EPI.

63.0 Shop Drawings
Clause 21. of GPC stands deleted and shall be read as below.

The Supplier shall submit detail drawings with dimension for all items etc as required and desired by EPI/NTPC. Nothing extra shall be paid on this account.

64.0 CONCILIATION AND ARBITRATION
Clause 23. of GPC stands deleted and shall be read as below.

Before resorting to arbitration as per the clause given below, the parties if they so agree may explore the possibility of conciliation as per the provisions of Part III of the Arbitration and Conciliation Act, 1996 as amended by Arbitration and Conciliation (Amendment) Act, 2015. When such conciliation has failed, the parties shall adopt the following procedure for arbitration:

64.1 Except where otherwise provided for in the contract, any disputes and differences relating to the meaning of the Specifications, Design, Drawing and Instructions herein before mentioned and as to the quality of workmanship or materials used in the work or as to any other questions, claim, right, matter or things whatsoever in any way arising out of or relating to the Contract, Designs, Drawings, Specifications, Estimates, Instructions, or these conditions or otherwise concerning the works of the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the Sole Arbitrator appointed by the Chairman & Managing Director (CMD) of Engineering Projects (India) Limited (EPI)
or any other person discharging the functions of CMD of EPI. The person approached for appointment as Arbitrator shall disclose in writing circumstances, in terms of Sub-Section (1) of Section (12) of the Arbitration and Conciliation Act, 1996 as amended by Arbitration and Conciliation (Amendment) Act, 2015 as follows:

(i) such as the existence either direct or indirect, of any past or present relationship with or interest in any of the parties or in relation to the subject- DLI/C&E/WI-675/306 ADDITIONAL PURCHASE CONDITIONS (APC) Page 7 of 8 matter in dispute, whether financial, business, professional or other kind. Which is likely to give rise to justifiable doubts as to his independence or impartiality; and

(ii) which are likely to affect his ability to devote sufficient time to the arbitration and in particular his ability to complete the entire arbitration within a period of twelve months. The Arbitrator shall be appointed within 30 days of the receipt of letter of invocation of arbitration duly satisfying the requirements of this clause.

64.2 If the arbitrator so appointed resigns or is unable or unwilling to act due to any reason whatsoever, or dies, the Chairman & Managing Director aforesaid or in his absence the person discharging the duties of the CMD of EPI may appoint a new arbitrator in accordance with these terms and conditions of the contract, to act in his place and the new arbitrator so appointed may proceed from the stage at which it was left by his predecessor.

64.3 It is a term of the contract that the party invoking the arbitration shall specify the dispute/ differences or questions to be referred to the Arbitrator under this clause together with the amounts claimed in respect of each dispute.

64.4 The Arbitrator may proceed with the arbitration ex-parte, if either party, in spite of a notice from the arbitrator, fails to take part in the proceedings.

64.5 The work under the contract shall continue as directed by the Engineer-In Charge, during the arbitration proceedings.

64.6 Unless otherwise agreed, the venue of arbitration proceedings shall be at the venue given in the ‘Memorandum’ to the ‘Form of Tender’.

64.7 The award of the Arbitrator shall be final, conclusive and binding on both the parties.

64.8 Subject to the aforesaid, the provisions of the Arbitration and Conciliation Act, 1996 as amended by Arbitration and Conciliation (Amendment) Act, 2015 or any statutory modifications or re-enactment thereof and the Rules made there under and for the time being in force shall apply to the arbitration proceedings and Arbitrator shall publish his Award accordingly.

Note: Not withstanding anything contained herein above, this clause shall not be applicable where the dispute is between EPI and another Public Sector Enterprise or Govt. Department for which a separate Arbitration Clause is provided vide Clause No. A given below:-

A. ARBITRATION BETWEEN PUBLIC SECTOR ENTERPRISES INTERSE/ GOVERNMENT DEPARTMENTS.

1. In the event of any dispute of difference relating to the interpretation and application of the provisions of the contracts, such dispute or differences shall be referred by either party for Arbitration to the sole Arbitrator in the Department of DLI/C&E/WI-675/306
ADDITIONAL PURCHASE CONDITIONS (APC) Page 8 of 8 Public Enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 and The Arbitration and Conciliation Act, 2015 shall not be applicable to arbitration under this clause. The award of the Arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make a further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law & Justice, Government of India. Upon such reference the dispute shall be decided by the Law-Secretary or the Special Secretary/Additional Secretary, when so authorized by the Law-Secretary, whose decision shall bind the Parties finally and conclusively. The Parties to the dispute will share equally the cost of arbitration as intimated by the Arbitrator”.

2. Subject to any amendment that may be carried out by the Government of India from time to time the procedure to be followed in arbitration shall be as is contained in F. No. 4(1)/2013-DPE(PMA)/FTS-1835 Dated: 11/04/2017 of Department of Public Enterprises, Ministry of Heavy Industries & Public Enterprises or any modification issued in this regard.

65. Court Jurisdiction

Clause 24.0 of GPC stands deleted and shall be read as below:

Disputes of any nature that may arise in connection with the execution of the contract shall be subjected to the jurisdiction of courts situated in Kolkata only.
CONTEMPLATED CHANGE NOTICE

To
Supplier

Submit Quotation to: Project No.:

CCN No:

Date:

Sub:

It is proposed to make the following change in the work. You are requested to quote a firm price for any revision to the contract amount arising from the change. No work should be undertaken on this change until a change order / written authorization has been signed and issued.

Quotation to be submitted within seven (7) days of the date of this notice.

The work shall conform to the contract documents where applicable unless otherwise stated.

Initiator Reasons for Change

____________________________ ____________________
# CHANGE ORDER

**Project No.:**

**Change Order No.:**

**Location:**

Description: Construction of Medical College & Hospital at Sundergarh, Odisha

**Project Management & Execution Consultant:** :-

**Architect:** :-

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<table>
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<th>Description of Change – Refer CNN No.</th>
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**Recommended by:** M/s EPIL

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**Approved By:**

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<th>Suppliers Name and Address</th>
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**Signature of Contractor**

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CSSD, BMW & MORTUARY
# List of Approved Make

## APPROVED MAKE OF CENTRAL STERILIZATION & STORES DEPARTMENT EQUIPMENT

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<td>S.S VERTICAL SLIDING DOOR</td>
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<td>DRYING CABINET WITH SINGLE DOOR</td>
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<td>11</td>
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<td>ETO</td>
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### APPROVED MAKE OF BIO MEDICAL WASTE MANAGEMENT EQUIPMENT

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<tr>
<td>1</td>
<td>MORTUARY EQUIPMENTS</td>
<td>YORCO, STERICLEAN, YORK</td>
</tr>
</tbody>
</table>
TECHNICAL SPECIFICATIONS

Central Sterilization & Stores Department EQUIPMENT
1. HORIZONTAL RECTANGULAR HIGH PRESSURE HIGH VACCUM DOUBLE DOOR STERILIZER

a) Horizontal Rectangular High Pressure High Vacuum Double Door Sterilizer. The sterilizer will be manufactured as per IS:No.3829 (Part 1)-1978 with ISI Mark.

b) The unit will be designed for operating pressure 30 to 32 psi. and corresponding to a temperature of 134°C. The sterilizer chamber would be formed out of SS 316.

c) The Jacket will be formed out of mild steel. The jacket outer cover will be of SS 304. The sterilizer will be provided with 2 Nos. pressure locking type hinged doors.

d) The door plate will be of SS 316 with shooting bolts, flush mountings and steam generator will be of SS 304. The stand of the sterilizer will be of mild steel.

e) The Sterilizer will be automatic with PLC with 5 pre-sets programs and 1 variable program, MMI with laser printer wherein date, time, load identification no. cycle selected, cycle parameter including time, temperature and phase etc. can be seen and documented.

f) Finally, the automation is so designed that once the program is selected then no further intervention is required from the operator till the end of the program.

g) The sterilizer will also be provided with an intelligent transducer for heater protection.

h) The unit will be complete with vacuum pump and condenser and inter-connecting piping.

i) Sterilizer as above of chamber size 600 mm x 600 mm x 1200 mm depth approx. (2”x2”x4”) suitable for electrical operation on 400/440 volts, 3 phase, AC supply, electrical load 21 KW.

2. S.S 316 CARRIAGE SUITABLE FOR RECTANGULAR STERILIZER

3. S.S 304 TROLLEY SUITABLE FOR ANY OF THE ABOVE CARRIAGE

4. S.S. CONTROL AND PACKING TABLE WITH DRAWER
   a) Overall size: 2000mm L x 1400mm W approx.

5. STAINLESS STEEL WORK TABLE
   a) Overall size 1500mm x 610x890 Ht approx.

6. S.S. VERTICAL SLIDING DOOR
   a) opening 500 x 500mm approx.

7. STAINLESS STEEL WORK TABLE WITH TWO SINK
   a) overall size 2400mmL x 650mm Wx900mm Ht approx.

8. WASHER DISINFECTOR
   a) Fully automatic of chamber volume 275 litres
   b) Made out of complete S.S 304 suitable for electrical operation on 400/440 volts, 3 phase
   c) AC supply
   d) Electrical load 13 KW
9. **ULTRASONIC CLEANER**
   a) Electric
   b) Capacity 30 litres

10. **DRYING CABINET WITH SINGLE DOOR**
    a) Drying Cabinet
    b) Electric, single door (made out of complete S.S 304)
    c) chamber volume 275 litres suitable for electrical operation on 230 volts
    d) single phase,
    e) 15 Amps
    f) Electric load 3.6 KW

11. **STAINLESS STEEL RACKS WITH 5 SHELVES,**
    a) overall size 1830x535x1830mm h approx.

12. **STAINLESS STEEL TABLE TROLLEY WITH 2 SHELVES**
    a) overall size 1080x530x800 h approx.

13. **GAUZE CUTTING MACHINE WITH SS**
    a) Table size 900x600x750mm approx.

14. **SINGLE DISTILLED WATER STILL**
    a) Generally as per the Barnstead Type.
    b) The Still is guaranteed to produce pyrogen free and chemically pure water to comply with IP/BP Standards.
    c) The Still will be manufactured as per “IS: No. 3830” and it will also bear the Bureau of Indian Standard Certification Mark.
    d) The evaporator, the multi-baffle and the condenser will be made out of stainless steel with the joints welded.
    e) The condenser will be provided with stainless steel tubes, water inlet and outlet connection.
    f) The Water Still will be supplied in a ready to use condition mounted on a suitable stand.
    g) Water Still as above of capacity 20 litres, per hour suitable for electric operation on 400/440 volts,
    h) 3 phase AC supply
    i) Electrical load being 15 KW

15. **STAINLESS STORAGE TANK**
    a) Electric load 6 kw
    b) Capacity 100 litres

16. **SPRAY GUN RINSER**
    **Operation:**
    a) The spray gun rinser will be used for cleaning of pipettes, catheters, cannulas, syringes.
    b) The spray gun is connected to de-mineralized water and pressurized air.
    c) A special rack will be provided for fitting the different cleaning tips.
    d) The water/air pressure will be released, regulated and fully controlled by the spray gun trigger.
    **Cleaning:**
    Special purpose tip is provided for the cleaning of:
a) Syringes and cannulas  
b) Measuring and blood pipettes  
c) Drainage tubing  
d) Instruments  
e) Bottles and flasks  

17. **Barcode Reader**

18. **HEAT SEALING MACHINE**  
a) The continuous band heat-sealing machine with conveyer is suitable for hospital sterile packing.  
b) It adapts electronic constant temp control system (temp control).  
c) It has speed adjusting transmission mechanism. (Speed control)  
d) It can emboss upto 15 interchangeable characters for batch recording, date etc. (embossing mechanism)  
e) It can seal plastic film of various materials such as PE, PP, Aluminium foil etc.  
f) It has height adjustments as well as sealing width adjustments.

**Specification**
- Temperature Range : 0-250deg.  
- Current Supply : 220-240 „Volts, 50 Hz, Single Phase  
- Current Consumption : 500 watts  
- Sealing speed : 1-12m/min  
- Cutting size : 200 mm (8")  
- Sealing width : 6 – 15 mm  
- Sealing film thickness : 0.02 –0.80mm  
- Conveyor loading :upto 5 kgs  
- Weight of the Machine : 45 kg

19. **GLOVE PROCESSING EQUIPMENT CONSISTS OF WASHER, DRYER, POWDERER, TESTER AND EXAMINER AND GLOVE SORT BIN OF FOLLOWING SPECIFICATIONS**

**I. GLOVE WASHER CAPACITY 50 PAIR “CE MARKED”**

a) Frame is to be fabricated out of 304 grade SS, all sides covered with SS covers.  
b) Direct or belt driven stirrer with sealed bearing provided in the chamber.  
c) Cam-timer type system for automatic control of wash process.  
d) 4 number swiveling casters are to be provided along with Drain pump and manual drain complete with perforated SS strainer.  
e) Complete with level control system, inlets for hot and cold water switches, indicators for cycle status, spare parts and accessories.

**II. GLOVE DRYER CAPACITY 50 PAIR “CE MARKED”**

a) Frame fabricated out of 304 grade SS with side covers also in SS.  
b) Inner drum fabricated out of 304 grade SS with a perforated periphery.  
c) Door with spring lock provided within the outer casing.  
d) Electrical heater, blower and ducting provided within the outer casing.  
e) Thermostatically controlled fast and efficient drying system ensuring the air to be blown into the inner drum at the centre.  
f) 4 number swiveling castors.  
g) Cam-timer based control mechanism.  
h) Complete with control switches, Indicators, spare parts and accessories.

**III. GLOVE POWDERER CAPACITY 50 PAIR “CE MARKED”**
a) Frame fabricated out of 304 grade SS with side covers also in SS.

b) Inner drum fabricated out of 304 grade SS with perforations at the ends for powdered discharge.

c) SS door with spring lock provided at the top for loading of gloves.

d) Suitable drive mechanism for inner drum.

e) Front panel mounted electric timer with auto reset to starting position.

f) 4 number swiveling castors.

g) Complete with spare parts and accessories.

IV. GLOVE SORT BINS "CE MARKED"

a) Body made of SS of suitable gauge and of size 350mm length & 250 mm width x 1700 mm height.

b) Four number separators between bins.

c) 45 degree taper towards the top.

V. GLOVE TESTING MACHINE DOUBLE MANDRIL

a) The unit would be ready to install type model which is having two Mandrills where the Gloves can be mounted.

b) Air is supplied through a Compressor is to be passed through Air Regulator Filter & Flow Control Valves to the Mandrills. Foot Switch is to be provided to ON/OFF the Air supply.

c) Power Consumption: 750 watts approx.

d) Overall size : 1200 L x 640 W x 1000 H approx.

20. SINGLE FREE STANDING BASKET RACK

a) The basket rack is build up as a modular system with storage consoles suitable for storage of sterilizing baskets

b) made of steel profile 50x30 mm welded an both sides to a sturdy pillar made of stainless steel profile 50x50 mm welded and the pillars are joined together by support frame also made of stainless steel profile.

c) The pillar are mounted on adjustable feet suitable for adjusting + 25 mm.

d) The entire rack will be electro-polished and finished smooth for easy handling and cleaning.

e) Each section will be suitable from storing of 8 in single basket racks.

21. STERILIZED SINGLE FREE STANDING BASKET RACK

a) The basket rack is build up as a modular system with storage consoles suitable for storage of sterilizing baskets

b) made of steel profile 50x30 mm welded an both sides to a sturdy pillar made of steel profile 50x50 mm welded and the pillars are joined together by support frame also made of steel profile.

c) The pillar are mounted on adjustable feet suitable for adjusting + 25 mm.

d) The entire rack will be galvanised and finished smooth for easy handling and cleaning.

e) Each section will be suitable from storing in double basket racks.

22. STERILIZED SS WIRE BASKET

a) Full size

b) SS Sterilizing basket made from corrosion resistant SS 304 wire with welded joint.

c) Adaptable with disinfectors, transfer carriage, sterilizing and storage equipment’s.

d) Compactly, stackable when empty.

e) Technical Data

Main Frame : AISI 304 5 mm Dia
Structure: AISI 304 3 mm Dia  
Handle: AISI 304 3 mm Dia  
Pitch 50 mm C/C  
Overall Size 540x370x140 mm (WxLxH) approx.

23. **SS WIRE BASKET**  
a) Half size  
b) Specifications as above  
c) Size: 540 x 370 x 95mm approx.

24. **ETO**  
The ETO sterilizer must be fully automatic for sterilization. PLC based controlling system along with SCADA (Equivalent) software. The construction of chamber door and all contact parts should be rust proof SS 304/316 grade or rust proof anodized Aluminum (HE30) with Insulation. Chamber capacity 135 Ltr. approx. No of Doors 1.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner Shell(Chamber)</td>
<td>SS304 (5mm Thickness)</td>
</tr>
<tr>
<td>Chamber internal DIM</td>
<td>1 x 1 x 5 ft (H x W x D) – Volume 135ltr.</td>
</tr>
<tr>
<td>Chamber Operating Pressure</td>
<td>Negative pressure cycle @-0.85kg/cm² to -0.25kg/cm²</td>
</tr>
<tr>
<td>Chamber Testing pressure</td>
<td>-0.95Kg/cm²</td>
</tr>
<tr>
<td>Door</td>
<td>SS 304</td>
</tr>
<tr>
<td>Door Locking System</td>
<td>Manual easy Door locking.</td>
</tr>
<tr>
<td>Gasket (food grade)</td>
<td>Gasket (Food Grade)</td>
</tr>
<tr>
<td>Outer cover</td>
<td>MS Powder coat</td>
</tr>
<tr>
<td>Heating</td>
<td>Heaters on all sides of the Chamber for uniform heating throughout the load.</td>
</tr>
<tr>
<td>ETO Cartridge</td>
<td>40 + 100GrmETO Cartridge</td>
</tr>
<tr>
<td>ETO Cartridge Punctured</td>
<td>The cartridge will be punctured automatically inside the</td>
</tr>
<tr>
<td>Temperature Sensor</td>
<td>For accurate measuring and controlling of Temp. in the</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>Maximum: 37-55°C (chamber)</td>
</tr>
<tr>
<td>Pressure sensor</td>
<td>For measuring and controlling the pressure-vacuum that the</td>
</tr>
<tr>
<td>All Valves for Automation</td>
<td>Solenoid or Pneumatic (Make: SMC, JAPAN/ Aira)</td>
</tr>
<tr>
<td>Humidification/ Steam generator</td>
<td>Steam generator</td>
</tr>
<tr>
<td>Vacuum Pump (Japan brand)</td>
<td>Special vacuum system without any moving parts, so</td>
</tr>
<tr>
<td>Vibration less, noise less&amp; Oil less</td>
<td>consistence in performance without any maintenance</td>
</tr>
<tr>
<td>Automation Hardware</td>
<td>PLC (CE approved, CLASS 1 DIV2 Groups ABCD Surrounding</td>
</tr>
<tr>
<td></td>
<td>Temp 50°C)HMI 4.3” Color touch screen</td>
</tr>
<tr>
<td>Data Backup</td>
<td>USB Pen drive</td>
</tr>
<tr>
<td>Printer</td>
<td>Thermal Printer</td>
</tr>
<tr>
<td>MCB for safety</td>
<td></td>
</tr>
<tr>
<td>Tray: SS 304 tray, tray with Teflon bushing and no. of Tray as per customer requirement.</td>
<td></td>
</tr>
<tr>
<td>Steam generator is in-built for humidity generation inside the chamber</td>
<td></td>
</tr>
<tr>
<td>ETO Machine comes on Castor Wheel (≥ 35 liter) for easy movement</td>
<td></td>
</tr>
</tbody>
</table>
TECHNICAL SPECIFICATIONS

BIO MEDICAL WASTE MANAGEMENT
WASTE MANAGEMENT SYSTEM

1. WASTE COLLECTION CONTAINERS

Supply and installation of waste collection containers of metal construction with synthetic enamel painting.

2. Waste Collection bags

Supply of waste transportation trolley complete with bin of approximate capacity of 100 litres. Made of stainless steel 304 grade 6" - 9" dia wheels & ball bearings.
TECHNICAL SPECIFICATIONS

MORTUARY EQUIPMENT
1. **MORTUARY CHAMBERS—MICROPROCESSOR CONTROLLED**

Mortuary storage system is designed for storing cadaverous under cool condition to prevent decomposition. These are latest development in Mortuary technology offering vast space saving advantage over the conventional type together with greater hygiene. Useful for General, specialty Railways Defence Hospital & Airports etc.

Double-walled with pre painted CRC/pre fabricated PUF Insulated panels for outer surface and stainless steel inner chamber Pre-engineered Polyurethane foamed (PUF) Panels are manufactured using environmental friendly non CFC gases or blowing agents. The Polyurethane foam insulation with a density of 40 kg per cubic meter has excellent insulating properties. The panels are fastened together by means of Cam-locks actuated by an Allen Key. A gasket is provided on both the inside and the outside edges of the tongue sections. Front opening, hinged insulated doors lined with magnetic gasket, handle and lock arrangement with keys in duplicate for individual dead bodies.

Tray to carry dead bodies are designed in one piece, Stainless Steel, with a tubular edge and handle at both ends to carry dead body easily to avoid any moving part inside the cabinet and for easier maintenance and cleaning, unitary type, factory assembled, ready to install type refrigeration unit is incorporated outside the chamber. Temperature –20°C to +50°C is maintained by hermetically sealed refrigerator compressor unit and is controlled by an automatic electronic solid state digital Suitable to work on 220V, single phase, 50 Hz. AC supply.

**Mortuary Carriage Assembly**:

The carriage consists of a three piece assembly which consists of a stationary frame, a lower Carriage and an upper carriage. The lower and upper carriage assembly is riding on wheels and tracks that allow easy telescopic action. The complete assembly is locked when returned to closed position.

Microprocessor based Temperature controller cum indicator is mounted on front panel, provided on front top, along with pilot lamp, main switch etc. Supplied complete with trays, cord and plug.

Suitable to work on 220 V, single phase, 50 Hz, Ac supply.

Available in following sizes :-

- Three bodies
- Optional Accessories :-
  - Suitable Stabilizer
- Three bodies ......5 KVA
- Outer body can be made of Stainless Steel instead of mild Steel Sheet.

**Optional: Foul Order Treatment De-Odorizing System**

This System comprises of Activated Carbon of a particular grain size for max absorption, the filter is of Honey-Comb design so that the activated carbon does not collect at one place due to weight of the granules, It absorbs foul smell &leaves no smell outside and almost not noticeable even after on opening the door while loading & unloading

Three bodies

**ITEM AUTOPSY TABLE**

with Integrated Down draft system - height adjustable

The Autopsy table is mounted to a central support column and is made entirely from stainless steel 304 grade. Through a three-piece, removable, perforated test area, all unsanitary orders are safely vacuume away. The work surface is equipped with a high surrounding border, and features a negative inclination to the waste sieve (detachable).
A seamlessly welded basin with a surrounding profile border is affixed to the end of the table. A tub with drainage channel is located under the perforated work surface. An integrated sprinkler system guarantees that the table is continuously sanitized. All power connections, including the air duct, are built into the base. The table is to be connected to the side-mounted ventilation system, which has a minimum capacity of 1000 m3/h.

the Autopsy table YSI-175EX model includes the following features:

Hydraulic Height Adjustable & Exhaust System

**Features:**
- Self cleaning / washing sprinkler on sides
- Central support column with 2 access doors
- Basin W / D / H 400×500×200 mm
- Knee-operated mixing tap for cold and warm water
- 3 m shower hose with hand sprinkler
- 2 splash proof electrical outlets
- 2 buttons for height adjustment
- Regulator valve for integrated sprinkler system
- 3-piece work top with large waste basin/sieve insert
- Circumferential perforation for safe removal of all odors
- Height adjustable from 750 to 1000mm

Dimensions (mm) : 2600 (W) × 850 (D) × 750/1000 (H)
Carrying Capacity : 200Kg.
Dead Weight : 250Kg.
Material of Construction : S.S. 304 grade.

**CADAVER WEIGHING SCALE**

Length of the floor scale would be 4’ to 6’, Sturdy platform for keeping the body, made of stainless steel, size : 6’ x 21/2’ x 4 “. Provided with the digital display to indicate the weight rapidly. The digital display meter enclosed in dust proof, stainless steel enclosure and can be mounted on the wall. Would be able to perform under rigorous conditions in mortuary room. Capacity: 0-200 Kg with an accuracy of 200 Gms. Fully made of stainless steel.

**ITEM AUTOPSY BOX**

Stainless steel box containing all necessary instruments.

**Contents:**
1 cartilage knife 8 cm blade, 1 mallet 20 cm, 1 autopsy knife 13 cm blade, 1 straight rachet 20 cm, 1 pair of bowl scissors 20 cm, 1 pair of rib shears, 1 pair of straight Liston shears19 cm, 1 Amputation saw, 1 pair of dissection forceps 1×2T, 16cm, 1 Weitlaner retractor, 1 pair of dissection forceps without tooth 16 cm

**ITEM AUTOPSY CASE**

Strong wood case. Suitable for all types of anatomical pathology.

**Contents :**
4 dissection scalpels, 1 rachet, 1 cartilage knife, 2 retractors with 2 double claws, 1 autopsy knife, 2 double tubed insufflaters, 1 pair of incision scissors 14.5cm, 2 olivaires stylets, 1 pair of bone shears, 4 suturing needles, 1 pair of bowl scissors, 1 tape measure, 2 dissection forceps 1×2T 6", 8" (One each), 1 100 cc test tube, 1 amputation saw, 2 chisel, 1 hammer
ITEM AUTOPSY SAW
Autopsy Saw is an essential instrument for the Pathologist. High speed oscillating action quickly cuts through bone without harming soft tissue. Therefore exposure to infected tissue is reduced and there is no need for a blade guard. The saw may be used for removing the skull cap, making linear cuts or taking small bone specimens. It is durable and easy to handle.

Salient Features:
• Accept all styles of autopsy blades.
• Complete with large section blade plus 2 arbors.
• Based on high-speed oscillation principle.
• 8-10 feet long electrical cord with hospital grade plug.
• On/Off sliding switches design.
• Hard piece to have firm grip area.
• Safety flange over hand piece.

ITEM CADAVEROUS INJECTOR
For injecting Formaldehyde solution in to Cadaverous at much higher speed than normal gravity process. Unit is fully covered & mounted on a portable trolley having four castor wheels for easy movement.

Unit consists of one air compressor fitted with 1/2 Hp Crompton /AUE Make Motor which is connected with a Stainless Steel Tank of 10 liters capacity meant for storing and injecting the solution with built in level Indicator and top liquid filling nozzle with cap. Tank is fitted with a safety valve, pressure gauge and rubber tubing having provision for injecting the solution. Supplied with 2 sizes of cannulae.

Suitable to work on 220 volts, 1ph 50 Hz, Ac supply.

WALL MOUNTED AUTOPSY SINKS
Wall mounted center approach autopsy sink provides all of the features normally found in typical pedestal type autopsy table without the space requirements. The autopsy cart overhangs the autopsy station allowing fluids to drain directly into the sink. On each side of the sink are dissection areas of equal size with removable and interchangeable grid plates.

The dissection are includes grid plates which are elevated above a sloped surface that drain directly into the sink wall mounted design allows for easy floor cleaning.

STANDARD FEATURES
A. Integral Sink (38” x 20” x 6”)
B. Backsplash
C. Removable grid plates (4)
D. GFCI Electrical outlet (2)
E. Hydro aspirator
F. Fixture w/swing spout (2)
G. Body rinse (2)
H. Hand spray (2)
I. Large instrument drawer (2)
J. Main circuit breaker switch

AUTOPSY CARTS
The DB series elevating (hand crank) autopsy carts can be used in conjunction with any or wall mounted Autopsy sinks. The frame design features a hand lifting mechanism that elevates one end of the autopsy cart allowing for a sloped surface. The downward sloped edge of the cart frame will latch onto the C series sink of needed. Standard features includes an elevating mechanism consisting of two hydraulic cylindrical actuated by a hand crank assembly with 7-1/2” (19cm) of travel. The DB series features heavy-duty 8” diameter non-corrosive powder coated wheels. During transport, one caster is swivel locked for easy mobility. When inactive, the casters can be locked for easy mobility. When inactive, the casters can be locked in place. Weight capacity is 375 pounds. ISO: quality management systems in compliance with ISO 9001:2008 And applies: design, engineering, manufacturing and installation of equipment distribution of supplies for morgue, pathology, histology and necropsy applications.

STANDARD FEATURES
Elevating mechanism: hand cranked mechanical/hydraulic lift system with 7-1/2” of lift adjustment.
Cart frame: 1-1/2” (3.8 cm) heavy gauge stainless steel tubing. TIG type welding is continuous with an approximate t1/8 inch (31cm) radius bead. Weld fillets are brushed clean removing any burrs or discoloration.

AUTOPSY CARTS

DESCRIPTION
Autopsy cart hand crank chassis

CADVER LIFT CONVEYOR STYLE WITH ADJUSTABLE HANDLE
CADEVER LIFT CONVEYOR STYLE
STANDARD FEATURES:
A. End access release latch (both ends)
B. Jc100 body tray positioning pad
C. Push handle, removable to (3) different positions
D. Hand held lift controller
E. Digital weight scale & controls
F. Heavy-duty casters w/barriers
G. Positioning lock lever
H. Push handle, receivers
I. Battery charger outlet
J. Power on/off w/ key lockout
K. Power distribution box, w/ battery & charger

EXCELLENT FOR SHORT AND LONG TERM SPECIMEN STORAGE

Vented Storage Cabinets
When storing wet tissue specimens vented storage cabinets are a necessity in any laboratory. Residual formalin that evaporates from the specimen storage container and vapor leakage from the storage container accumulates in the storage cabinet. The vented storage cabinet will eliminate the residual formalin fumes when tied into the building ventilation system. Available on both wall mounted and free standing cabinets, the cabinet ventilation option can be added to any cabinet within the LA Series, LB
Series, LC Series and LD Series. The cabinets feature glass or solid doors, Cabinets can be easily cleaned with any of disinfectants, Stainless Steel Wipes or cleaner formulated for stainless steel.

**Standard Features**

- All shelves are perforated with 1/2" diameter holes on 3" centers
- A diameter x 2 1 /2" high ventilation cuff is centered on the top of each cabinet.
- Specifically designed doors allow for air infiltration to accommodate the negative pressure induced for LA Series (Solid Door) and Cabinet Ventilation (Solid Door) and (Glass Door)

Tall Cabinets
Cabinet Ventilation

**DISSECTION TABLE**

Dissection table dip tank is designed to keep cadavers and anatomic specimens fully submerged in fixative solution for prolonged storage, is ideal for anatomy classes at any teaching hospital or university. The tank helps maintain moisture content and the natural condition of stored tissues.

Storage is accomplished by placing cadaver or specimens on the elevating tray and subsequent lowering of tray into dilative solution. Body tray handles control this movement, pivoting to raise or lower tray and are located on either end of tank. Positive support latches are provided to securely and safely lock the tray and cadaver in the raised position for further examination or study.

**standard features**

**TANK**: Tank is constructed with broad flanges, easing the loading and unloading of specimen, while offering extra strength to the tub. The deep well tank is constructed of heavy duty 14 gauge stainless steel and welded to and equally string 14 gauge tubular frame, ensuring long service life.

**HOOD**: The hood easily pivots to the side while dissection is taking place. Materials is 18-gauge stainless steel with a #4 satin finish

**BODY TRAY FRAME**: A standard body tray frame is provided which will saddle the body. The corners are open to allow for fluid drainage during dissection. The frame is fabricated of 16-gauge stainless steel with a #4 satin finish

**FRAME**: The frame is constructed of 1-1/2" square stainless steel tubing with continuous fillet welds. All welds are brushed clean removing any weld burrs or discoloration

**CASTERS**: Casters are diameter With heavy duty swivel wheels complete with swivel locks and wheel brakes

**FABRICATION**: All welding is TIG type welding with only stainless steel as a filler media. All exposed welds are ground smooth and regained to match the adjacent factory mill #4 satin finish unexposed welds are free of burrs and discoloration

**ISO**: Quality Management System in compliance with ISO 9001:2008 and applies: Design, Engineering, Manufacturing and installation of Equipment Distribution of Supplies for Morgue, Pathology, Histology and Necropsy Application
PRODUCT DESCRIPTION
Lever Elevating System

STANDARD FEATURES:
A. Perforated grid plate
B. Drain valve
C. Stainless steel hood
D. Removable drain pan
E. Hood swing latch
F. Heavy duty caster w/wheel brake-swivel lock
G. Heavy duty cart frame
H. 6” ventilation stub
I. Elevating crank wheel

FEATURES DESCRIPTION
Bridge Style Leg Resets
Bridge Style Book Holder
Scale Stand

DISSECTION OF CADAVERS
A downdraft table designed for the dissection of cadavers: The downdraft system provides a safe environment, completely removing formalin vapors down and away from the user. The hinged cover will securely and discreetly conceal the cadaver, during the dissection the hinged covers lock neatly and secretly under the table and out of the way. The dissecting table has a removable perforated grid plate and recessed top, eliminating the need for a body tray. Built with a positive slope, the table drains toward one end into a bucket (optional) under the table frame. A PVC stop the flow of fluids while emptying the bucket. Ventilation is connected into the building ventilation system either on one end or both ends of the dissecting table. You must choose one system, wither one baffle (single ducting exhaust or two baffles (dual duct connection) the connection can be made to a flexible duct that extend from the ceiling or floor.

STANDARD FEATURES

Table Top Downdraft: Designed to hold a fitted perforated grid plate, the table top features fully welded construction and a heavy-duty undercarriage sub frame

Frame: The sturdy frame is fabricated from 1-5/8” diameter, heavy wall stainless steel tubing and includes two cross leg supports and two lateral supports Material finish: #4 satin Casters: Casters are 5” diameter with heavy duty swivel wheels complete with swivel locks and wheel brakes

Hood: The hood end caps are finished with continuous welding

Undercarriage Sub-Frame: "U" channel type design using 11 gauge stainless steel and continuous welded
**Duct:** Chose one system, (dual duct) or (single duct).

**ISO:** Quality Management System in compliance with ISO 9001:2008 and applies: Design, Engineering, Manufacturing and Installation of Equipment Distribution of Supplies for Morgue, Pathology, Histology and Necropsy Applications

**OPTIONAL FEATURES**

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge Style Leg Rests</td>
</tr>
</tbody>
</table>
BIO MEDICAL WASTE MANAGEMENT
MORTUARY

Signature of Contractor

CSSD, BMW & MORTURARY