

**Amendment No. 2****19.06.2018****Sub: Amendment to the Bidding Document****Ref.: Notice Inviting Bid ref. HITES/PCD/NCI-AIIMS/18/18-19 dated 25.05.2018 read with its Amendment No. 01 dated 08.06.18**

The following changes have been authorised and are being incorporated in the above referred Bidding Document.

**SECTION - VII****TECHNICAL SPECIFICATION AND GENERAL POINTS****A. TECHNICAL SPECIFICATION:**

**Item No. 1 (Rfx/ Event number 3000002858)  
CSSD System**

<b>Sl. No.</b>	<b>Ref. to the Bidding Document</b>	<b>Specification/Clauses in the Bidding Document</b>	<b>Amendment</b>
1	Page 45, point 10	All record keeping and maintenance of record to be done via workflow management system. Record keeping should be done in realtime.	<b>Deleted</b>
2	Page 45, point 11	Bidder has to do all required turnkey as defined in the Annexure -1, institute will provide shell structure of approx. 6000 sq feet with one point electrical, water, drain supply & chill water supply (HVAC within CSSD). Bidder has to do complete planning, designing, supply, installation, testing & commissioning of all equipment on turnkey basis including all civil, electrical, plumbing, SS panelling, firefighting, sanitary, drainage, furnishing, CCTV and HVAC etc as described in Turnkey works. While designing the CSSD the Bidder has to provision for future expansion of	Bidder has to do all required turnkey as defined in the Annexure -1, institute will provide shell structure of approx. 6000 sq. feet with one point electrical, water, drain supply & chill water supply (HVAC within CSSD). Bidder has to do complete planning, designing, supply, installation, testing & commissioning of all equipment on turnkey basis including all civil, electrical, plumbing, SS panelling, firefighting, sanitary, drainage, furnishing, CCTV and HVAC etc as described in Turnkey works. While designing the CSSD the Bidder has to

		CSSD for installation of One Washer disinfectant, One Steam Sterilizer & <b>one ETO</b> of the highest capacity quoted by the bidder in the said tender. This provision should be made without disrupting the zoning of the CSSD. All ancillary services like (electricity, water points, plumbing, R.O etc.) required for future expansion has to be built in while designing and furnishing the CSSD.	provision for future expansion of CSSD for installation of One Washer disinfectant and One Steam Sterilizer of the highest capacity quoted by the bidder in the said tender. This provision should be made without disrupting the zoning of the CSSD. All ancillary services like (electricity, water points, plumbing, R.O etc.) required for future expansion has to be built in while designing and furnishing the CSSD.
3		<b>ADDED PARA 11.1:-</b>	One room of approx. of 20 feet* 20 feet to accommodate 2 nos. of ETO of capacity of minimum 200 ltrs each.
4	Page no 46, Point 26	Chamber Capacity: Chamber capacity: Operational Volume should be able to process minimum 12 DIN trays (Approx. 480 X 250 X 50) with 6 levels in single process. Should supply 12 Nos of standard Stainless Steel DIN trays. The chamber should be made of S.S. 304 or S.S. 316 L quality with electro polished washed surfaces. The chamber edges should not have the pockets & folds so as to avoid bacterial growth. The wash chamber should also be fitted with bright light for clear visibility of the washing process.	Chamber Capacity: Chamber capacity: Operational Volume should be able to process minimum 12 <b>DIN in single cycle</b> . Should supply 12 Nos of standard Stainless Steel DIN trays. The chamber should be made of S.S. 304 or S.S. 316 L quality with electro polished washed surfaces. The chamber edges should not have the pockets & folds so as to avoid bacterial growth. The wash chamber should also be fitted with bright light for clear visibility of the washing process
5	Page no 47 Point 26	Consumables are responsibility of bidder only and adequate supply minimum for 30 days should be always kept in CSSD, NCI-AIIMS	<b>Deleted</b>
6	Page no 47, Point 26	The washer should be equipped with independent temperature monitoring and <b>validation test port</b> .	The washer should be equipped with independent temperature monitoring.
7	Page 47 , Point 26	Standards & Norms: Manufacturer should be ISO 13485:2003, EN ISO 15883 and <b>ISO 9001</b> certified and copy of the certificates should be attached with the bid.	Standards & Norms: Manufacturer should be ISO 13485:2003 and EN ISO 15883 certified and copy of the certificates should be attached with the bid.
8	Page 49, Para 32	Should have 60 liters per second air flow, 17 kilopascals suction power	Should have <b>50-60 liters</b> per second air flow, 17 kilopascals suction power

9	Page 50, Para 37	Pass Box :-Pass-through chamber should be based on pneumatic/ electrical operated and should fit all types of standard racks	Pass Box Pass-through chamber should be based on <b>Manual/</b> pneumatic/ electrical operated and should fit all types of standard racks
10	Page no 51, Point 40	A mechanical safety edge stops the door if it is obstructed while closing, thus protecting operator & loading equipment.	A mechanical safety edge / <b>Laser</b> based safety mechanism stops the door if it is obstructed while closing, thus protecting operator & loading equipment.
11	Page 51 para 40	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 <b>with multiple heaters. Specify the number of heaters</b>	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.
12	Page 53 Para 41	Minimum Size (LxWxH) : 2000 x 1500 x 900 mm	Minimum Size (LxWxH): 2000 x 1500 x 900 mm ( <b>±10%</b> )
13	Page No 53 Para 40	<b>Loading/Unloading system:</b> Sterilizer should have the two rails for easy loading, shelf rack with shelves (carriage) with 1 set of loading and unloading carts & <b>racks</b> from the same manufacturer/principal company.	<b>Loading/Unloading system:</b> Sterilizer should have the two rails for easy loading, shelf rack with shelves (carriage) with 1 set of loading and unloading carts from the same manufacturer/principal company.
14	Page 53 Para 41	<b>Table for Packing in clean area</b> The worktop should be made of a robust wood-based core material, surfaced with plastic laminate in a soft beige colour that reduces reflection of light from the surface / stainless steel top. All edges should be smooth. The extended width of the worktop should be designed to facilitate thorough inspection of instrument trays and allow the use of large wrapping material.	<b>Table for Packing in clean area</b> The worktop should be made of <b>SS (304)</b> All edges should be smooth. The extended width of the worktop should be designed to facilitate thorough inspection of instrument trays and allow the use of large wrapping material.
15	Page 54 Para 41	Should have double workspace. One workplace table should have 700 mm wide worktop and other workplace should have 1400 mm worktop.	Should have double work space table with <b>one work space of 700 mm wide worktop and another workspace also of 700 mm wide worktop i.e total workspace should be 1400 mm total workplace should be 1400 mm.</b> (±10%)
16	Page no 61, Para 2	Turnkey Works : The turnkey work includes all modifications to the built up space provided at the	Turnkey Works : The turnkey work includes all modifications to the built up space provided at

		hospital site including Installation of Equipment, <b>ETO</b> , RO plant, civil works, electrical works, plumbing works, false ceiling, CCTV, SS paneling for sterilizer and washer disinfectant, firefighting, sanitary, drainage, furnishing, etc. While designing the CSSD the Bidder has to provision for future expansion of CSSD for installation of One Washer disinfectant, One Steam Sterilizer <b>&amp; one ETO</b> of the highest capacity quoted by the bidder in the said tender. This provision should be made without disrupting the zoning of the CSSD. All ancillary services like (electricity, water points, plumbing, R.O etc.) required for future expansion has to be built in while designing and furnishing the CSSD.	the hospital site including Installation of Equipment, RO plant, civil works, electrical works, plumbing works, false ceiling, CCTV, SS paneling for sterilizer and washer disinfectant, firefighting, sanitary, drainage, furnishing, etc. While designing the CSSD the Bidder has to provision for future expansion of CSSD for installation of One Washer disinfectant & One Steam Sterilizer of the highest capacity quoted by the bidder in the said tender. This provision should be made without disrupting the zoning of the CSSD. All ancillary services like (electricity, water points, plumbing, R.O etc.) required for future expansion has to be built in while designing and furnishing the CSSD.
17	Page 59, Para 65	Closed Sterilization Containers 300mm x 290mm x 110mm Should have thermo lock drainage, steam penetration valve and stainless steel top.	Closed Sterilization Containers 300mm x 290mm x 110mm Should have thermo lock drainage, steam penetration valve and stainless steel/ <b>Aluminium top. Having biobarrier/ Permanent filter with life 4000- 5000 cycles</b>
18	Para 59, Para 66	Closed sterilization containers Closed Sterilization Containers 300mm x 290mm x 140mm Should have thermo lock drainage, steam penetration valve and stainless steel top.	Closed Sterilization Containers 300mm x 290mm x 140mm Should have thermo lock drainage, steam penetration valve and stainless steel/ <b>Aluminium top. Having biobarrier/ Permanent filter with life 4000- 5000 cycles</b>
19	Page 59, Para 67	Closed Sterilization Containers 590mm x 280mm x 260mm Sizes should be - 590x280x260 units.	Closed Sterilization Containers 590mm x 280mm x 260mm <b>Should have thermo lock drainage, steam penetration valve and stainless steel/ Aluminium top. Having biobarrier/ Permanent filter with life 4000- 5000 cycles</b>

20	Page 60, Para 87	Reverse Osmosis Plant 2000 LPH with 6000 Ltrs storage tank and shed RO should of EurekaForbes/Ion Exchange / Millipore /Kent I Aquacare / Rions /Water expert make	Reverse Osmosis Plant 2000 LPH with 6000 Ltrs storage tank and shed RO should of Eureka Forbes/Ion Exchange / <b>Delta Puret</b> /millipore / Kent I/Aquacare / Rions / Water expert make
21	Page 64; Para 4.a	i) Make of smoke detectors as approved will be Apollo/ Edward/ Seimens/ Honeywell.	i) Make of smoke detectors as approved will be Apollo/ Edward/ Seimens/ Honeywell / <b>Schrack</b>
22	Page 65; Para 7.	<p>a. NCI-AIIMS, shall not be held responsible for any loss or damage due to any reasons whatsoever to any type of inventory that may be kept in the saidCSSD store by the vendor. The premises provided to the vendor should only be used for the purpose as mentioned in the contract (i.e. CSSD services for NCI-AIIMS, only). Under no circumstances, the premises are to be used for any other purpose, than what has been mentioned in the contract. The general safety &amp; ensuring fire safety of the premises is the responsibility of the contractor.</p> <p>b. Bidder has to install CCTV cameras covering all major areas with recording of 30 days for the proper monitoring of workflow with the connection in the manager room. It should be integrated with Hospital security system.</p>	Bidder has to install IP based CCTV cameras covering all major areas with recording of 60 days for the proper monitoring of workflow with the connection in the manager room.
23	Page 68; Annexure -2. J	<b>Added item in BOQ:</b>	Automatic three line label gun (for steam sterilization packs) Labeling gun with ability to print Batch No, Date of sterilization & Date of expiry on CSSD package labels as per label specifications asked for in consumables (Annexure -3) <b>Quantities Required: 02 nos.</b>

**Existing 'Annexure -3' of 'CSSD System' in the Bidding Document is amended and superseded by the following:**

**Annexure-3- (Consumable cost calculation for Bid Ranking purpose)**

<b>Consumable@/ Reagent</b>	<b>Unit Rate*</b> (Bidders must quote make, model & details of the smallest packaging available for each of the consumable/ reagent )	<b>Indicative quantity required for 10 years</b>	<b>Total cost for 10 years</b>
Detergent compatible with system (OEM# , GK , 3M, Medovation, Dr Weigert, Eco lab)		8,000 litres	
Liquid Enzymes compatible with system (OEM# ,3M, GK ,Medovation, Dr Weigert, Eco lab)		8,000 litres	
Rust Remover compatible with system (OEM#, 3M,GK, Medovation, Dr Weigert, Eco lab)		8,000 litres	
Neutralizer compatible with system (OEM# ,3M, GK, Medovation, Dr Weigert, Eco lab)		8,000 litres	
Label compatible with automatic three line label gun ( as asked in BOQ).The label should be steam compatible and should have Class -I process Indicator on it . The price should be quoted inclusive of all consumables for the label Gun like ink cartridges etc as applicable		5,00,000 labels	
Bowie Dick Test Regular pack (EN ISO 11140-1, class 2)		12,000 nos.	
BMS ( Batch Monitoring system) Consumables / Strips		60,000 nos.	
Bio logical indicator( ISO 11138-1)		1,800 nos.	
Medical Grade Crepe / Kraft Paper for wrapping (ISO11607-1 and EN868-2 compliant)  Size: 75mm x75mm		8,00,000 nos.	

Medical Grade Crepe / Kraft Paper for wrapping (ISO 11607-1 and EN868-2 compliant)  Size: 90 mm x 90 mm		8,00,000 nos.	
Medical Grade Crepe / Kraft Paper for wrapping (ISO 11607-1 and EN 868-2 compliant)  Size: 120 mm x 120 mm		8,00,000 nos.	
Heat-sealable sterilization reel( transparent PET/PP film & medical grade paper conforming EN 868-3) with Class 1 indicator ( ISO 11140-1 )  (minimum 400 mm width)		1,20,000 m	
Heat-sealable sterilization reel( transparent PET/PP film & medical grade paper conforming EN 868-3) with Class 1 indicator ( ISO 11140-1 )  (minimum 100 mm width)		1,20,000 m	
Single sided Adhesive Autoclave Tape with Class-1 Indicator (ISO 11140-1) (minimum 18 mm width)		5,00,000 m	
Process Challenge Device for BMS test		10 nos.	
Chemical Indicator (EN ISO 11140-1, class 5)		5,00,000 nos.	
<b>Total Consumable Cost for the purpose of Bid Ranking</b>			
<p>*Unit Rates quote shall stay valid for the duration of the contract and NCI-AIIMS reserves the right to procure the consumables from the bidder at quoted rates or from any other sources as per requirement</p> <p># OEM brand product means the product marketed under the Brand of the Washer Disinfector Manufacturer.</p> <p>@ Any other item like heater, Gasket, thermostat etc. not mentioned in the aforementioned list of consumables but required for optimal functioning of the CSSD equipment shall be covered under warranty and CAMC.</p> <p>\$ Bidder must upload a filled copy of the Annexure -3 with techno-commercial Bid without disclosing the prices.</p>			

Ensure that the detergents and/or enzymatic cleaners selected are compatible with the metals and other materials used in medical instruments and also they should be in accordance with the CDC guidelines for sterilization.

**Existing 'Annexure -4' of 'CSSD System' in the Bidding Document is amended and superseded by the following:**

**Annexure\*\* - 4-Electricity consumption (For Bid ranking)**

column	1	2	3	4	5	6
<b>Equipment name</b>	<b>Number of equipment</b>	<b>Indicative load per equipment per day</b>	<b>Capacity of the equipment as quoted in the Bid</b>	<b>Average electricity consumption per cycle in KWH at full load*</b>	<b>Number of Cycles required per equipment per day for load as mentioned in Column '2'</b>	<b>Total cost of electricity for 10 years</b> <b>= (1) x (4) x (5) x 365 days x 10 years x Rs. 10#</b>
Steam Steriliser in STU	3	72 STU				
Ultrasonic Washer in Litres	1	160 Ltrs				
Washer Disinfector in DIN	3	72 DIN				
<b>Total cost of electricity for 10 years</b>						

\* A certificate in this regard from the OEM to be enclosed in the Technical Bid. The electricity consumption per cycle as declared by the OEM shall be verified at the time of commissioning of CSSD and if the electricity consumption is found to be higher than the declared value by over 5%, the difference in the indicative electricity cost at column '6' (on account of increased electricity consumption) shall be recovered from the bidder while making the final CAPEX payment.

\*\* If the bidder misquotes any information, TSEC of NCI –AIIMS reserves the right to rectify the same based on factual data evident from the Declaration submitted by OEM

# Average indicative cost of electricity per KWH is being considered Rs 10 for the purpose of bid ranking.



**Clarification to the Bidders regarding 'Clause 4: Fire Safety' of CSSD System-**

The fire safety in CSSD should be as per fire safety norms applicable to NCI -AIIMS, Jhajjar.

**All other contents of the Bidding Document including terms & conditions remain unaltered.**