

All Bidders

Amendment -VII

Subject: Supply , Installation, Testing & Commissioning of CSSD Equipment for Chittaranjan National Cancer Institute (CNCI), Kolkata.

IFB No. : HSCC/SES/CSSD/CNCI/Kolkata/2017 dated 15.12.2017

This has reference to above IFB.

The following Amendment may be noted which shall be treated as part of the tender document and to be submitted duly signed & stamp along with tender.

Sr. No.	Bidder's Queries	Reply
1	Page 139: Clause 21.1 under subheading Terms of Payment Requested: a) On delivery: 90% payment of the contract price shall be paid on dispatch of goods. b) On Acceptance: Balance 10% payment would be made against Installation and Acceptance.	Tender Terms and Conditions prevail.
2	Page 153: Clause 1 Sub-heading: Technical specification of CSSD equipments Horizontal Sterilizer 550L-600L or more with accessories Requested: Kindly specify the STU capacity, we suggest 8 STU.	8 STU/550-600L
3	Page 153: Clause 1 Sub-heading: Technical specification of CSSD equipments Fully automatic PLC or Microprocessor controlled Horizontal Rectangular Autoclave (Steam Sterilizer), with pre and post-vacuum treatment and with loading equipment Requested: It should be Dual PLC only as per EN 285 which is better.	Tender Terms and Conditions prevail.
4	Page 153: Clause 1 (a) 1 Sub-heading: Door Safety Systems Pressure sensor system should be available in the	Tender Terms and Conditions prevail.

	<p>chamber to monitor the chamber pressure. Chamber should be completely depressurized before the door seal is retracted by vacuum</p> <p>Requested: There should be door Gasket Pressure Switch to monitor whether the door gasket is properly pushed or retracted, which is better safety feature.</p>	
5	<p>Page 153: Clause 1 (a) 3 Sub-heading: Door Safety Systems A mechanical safety edge stops the door if it is obstructed while closing, thus protecting operator & loading equipment</p> <p>Requested: It should also reverse the direction of the door movement in the event of any Obstruction is faced which is better feature.</p>	Tender Terms and Conditions prevail.
6	<p>Page 153: Clause 1 (a) 4 Sub-heading: Door Safety Systems A cycle should not start if the door is open or not properly locked and a specific indicator or display should be there if door is not locked/open.</p> <p>Requested: There should be dedicated sensor/limit switch to monitor whether the door is closed or open, which is better safety feature.</p>	Tender Terms and Conditions prevail.
7	<p>Page 153: Clause 1 (a) 5 Sub-heading: Door Safety Systems The door seal should be made of silicon rubber gasket & on commencement of the process the door gasket is pressed against the rear face of the door by steam/air to ensure the door remains closed during the process</p> <p>Requested: There should be door Gasket Pressure Switch to monitor whether the door gasket is properly pushed or retracted, which is better safety feature.</p>	Tender Terms and Conditions prevail.
8	<p>Page 153: Clause 1 (a) 6 Sub-heading: Door Safety Systems Double door safety is implemented through interlocks which prevent both doors from being opened simultaneously</p> <p>Requested: There should be dedicated sensor/limit switch to monitor whether the door is closed or open, which is better safety feature.</p>	Tender Terms and Conditions prevail.
9	<p>Page 153: Clause 1 (b) 1 Sub-heading: Chamber &</p>	Tender Terms and Conditions

	<p>Doors The chamber and doors should be made of solid, high quality 316L Stainless steel.</p> <p>Requested: It should be AISI 316L and thickness should be at-least 8mm. It should have side & external panels on all sides made of SS 304, which is better.</p>	prevail.
10	<p>Page 153: Clause 1 (b) 2 Sub-heading: Surface Treatment The internal surface should be electro-chemically treated or mechanically treated for high quality smooth finish to facilitate cleaning. The resultant surface should be polished to less than 0.8 μm fineness to protect against corrosion. The internal corners should be rounded off to facilitate efficient cleaning.</p> <p>Requested: – Ra (Roughness acceptance level) should be less than 0.2 μm fineness, which is better.</p>	Tender Terms and Conditions prevail.
11	<p>Page 153: Clause 1 (b) 3 Sub-heading: Insulation The sterilizer jacket and door should be completely insulated to keep the autoclave cool on the outside. The insulation should be completely encased in rigid removable sheet housing.</p> <p>Requested: – Insulation thickness & Insulation material should be specified, we recommend 50 mm fonitec pads.</p>	Tender Terms and Conditions prevail.
12	<p>Page 153: Clause 1 (b) 5 Sub-heading: Steam Generator It should have a built in thermostat, pressure safety valve & water level glass gauge inspection device or water level indication on screen visible from service area.</p> <p>Requested: – – It should be also be with Water level probes for sensing the water level by Electronic water level regulator relay, which is better.</p>	Tender Terms and Conditions prevail.
13	<p>Page 154: Clause 1 (c) Sub-heading: Pipes, Valves and Components The piping system should be made of Stainless Steel / Brass / Copper</p> <p>Requested: Only SS 316 L should be allowed because of cost difference between Stainless Steel / Brass / Copper</p>	Tender Terms and Conditions prevail.

14	<p>Page 154: Clause 1 (c) Sub-heading: Pipes, Valves and Components The piping system should be made of Stainless Steel / Brass / Copper</p> <p>Requested: Only SS 316 L should be allowed because of cost difference between Stainless Steel / Brass / Copper</p>	Tender Terms and Conditions prevail.
15	<p>Page 154: Clause 1 (c) Sub-heading: Pipes, Valves and Components All the hot pipes should be properly insulated. Safety valves should be made of brass/copper/stainless steel</p> <p>Requested: Safety valves should be stainless steel only</p>	Tender Terms and Conditions prevail.
16	<p>Page 154: Clause 3 Sub-heading: Electrical Components The terminals & contacts should be housed in a water tight cabinet while the other electrical component should be directly mounted on sterilizer</p> <p>Requested: It should be housed inside the Electrical Cabinet and is kept inside the sterilizer and nothing should be seen outside, which is better safety feature.</p>	Tender Terms and Conditions prevail.
17	<p>Page 154: Clause 3 (e) 1 Sub-heading: Control System The control system should be microprocessor based PLC system specially designed for sterilization application.</p> <p>Requested: It should be Dual PLC as per EN 285.</p>	Tender Terms and Conditions prevail.
18	<p>Page 154: Clause 3 (e) 2 Sub-heading: Control System Multiple password access levels (specify number) should be provided to control access/operation of the machine preventing unauthorized access. These access levels should be user selectable. The control system should have CPU processor with battery back-up & nonvolatile memories, Digital input/output controls, analog measuring inputs & COM ports for printer & PC connectivity</p> <p>Requested: It should be also with RJ45 Ethernet connection & USB Port.</p>	Tender Terms and Conditions prevail.
19	<p>Page 155: Clause 3 (j) Sub-heading: Water Consumption Specify water consumption levels</p>	Tender Terms and Conditions prevail.

	Requested: It should be also with at least 50% water saving/recovery system.	
20	<p>Page 155: Clause 3 (k) Sub-heading: Vacuum Pump High vacuum pump (water ring type) with recycling facility for removal of air within the chamber should be provided & mounted on vibration isolator for quite operations. It should also have low water level alarm to protect it from dry run</p> <p>Requested: It should have thermic relay/overload protection device, which is better.</p>	Tender Terms and Conditions prevail.
21	<p>Page 155: Clause 3 (n) Sub-heading: Directives & Standards It should meet EN ISO / IEC directives and product should be US FDA/European CE certified with four digit notified body number The manufacturer should have ISO 13485:2003 and EN 285 for Large Autoclaves (Europe) or USA: ST8 – Hospital Sterilizers.</p> <p>Requested: It should also have MDD directive and should be latest PED & validated according to EN ISO 17665</p>	Tender Terms and Conditions prevail.
22	<p>Page 155: Clause 2 Sub-heading: High Speed Sterilizer 150 -250 Litres with accessories for TSSU</p> <p>Requested: Kindly specify the STU capacity, we recommend 2 STU.</p>	150-250 L (2-3 STU)
23	<p>Page 155: Clause 2 Sub-heading: High Speed Sterilizer 150 -250 Litres with accessories for TSSU Fully automatic PLC or Microprocessor controlled Horizontal Rectangular Autoclave (Steam Sterilizer), floor mounted with pre and post-vacuum treatment and with loading equipment.</p> <p>Requested: It should be Dual PLC only as per EN 285 which is better.</p>	Tender Terms and Conditions prevail.
24	<p>Page 155: Clause 29(a) 1 Sub-heading: High Speed Sterilizer 150 -250 Litres with accessories for TSSU Pressure sensor system should be available in the chamber to monitor the chamber pressure. Chamber should be completely depressurized before the door seal is retracted by vacuum</p> <p>Requested: There should be door Gasket Pressure Switch to monitor whether the door gasket is</p>	Tender Terms and Conditions prevail.

	properly pushed or retracted, which is better safety feature.	
25	<p>Page 155: Clause 2 (a) 3 Sub-heading: Door Safety Systems A mechanical safety edge stops the door if it is obstructed while closing, thus protecting operator & loading equipment</p> <p>Requested: It should also reverse the direction of the door movement in the event of any obstruction is faced which is better feature.</p>	Tender Terms and Conditions prevail.
26	<p>Page 155: Clause 2 (a) 4 Sub-heading: Door Safety Systems A cycle should not start if the door is open or not properly locked and a specific indicator or display should be there if door is not locked/open.</p> <p>Requested: There should be dedicated sensor/limit switch to monitor whether the door is closed or open, which is better safety feature.</p>	Tender Terms and Conditions prevail.
27	<p>Page 155: Clause 2 (a) 5 Sub-heading: Door Safety Systems The door seal should be made of silicon rubber gasket & on commencement of the process the door gasket is pressed against the rear face of the door by steam/air to ensure the door remains closed during the process</p> <p>Requested: There should be door Gasket Pressure Switch to monitor whether the door gasket is properly pushed or retracted, which is better safety feature.</p>	Tender Terms and Conditions prevail.
28	<p>Page 155: Clause 2 (a) 6 Sub-heading: Door Safety Systems Double door safety is implemented through interlocks which prevent both doors from being opened simultaneously</p> <p>Requested: There should be dedicated sensor/limit switch to monitor whether the door is closed or open, which is better safety feature.</p>	Tender Terms and Conditions prevail.
29	<p>Page 156: Clause 2 (b) 1 Sub-heading: Chamber & Doors The chamber and doors should be made of solid, high quality 316L Stainless steel.</p> <p>Requested: It should be AISI 316L and thickness</p>	Tender Terms and Conditions prevail.

	<p>should be at-least 8mm. It should have side & external panels on all sides made of SS 304, which is better.</p>	
30	<p>Page 155: Clause 2 (b) 2 Sub-heading: Surface Treatment</p> <p>The internal surface should be electro-chemically treated or mechanically treated for high quality smooth finish to facilitate cleaning. The resultant surface should be polished to less than 0.8 μm fineness to protect against corrosion. The internal corners should be rounded off to facilitate efficient cleaning.</p> <p>Requested: – Ra (Roughness acceptance level) should be less than 0.2 μm fineness, which is better.</p>	Tender Terms and Conditions prevail.
31	<p>Page 156: Clause 2 (b) 3 Sub-heading: Insulation</p> <p>The sterilizer jacket and door should be completely insulated to keep the autoclave cool on the outside. The insulation should be completely encased in rigid removable sheet housing.</p> <p>Requested: – Insulation thickness & Insulation material should be specified, we recommend 50 mm fonitec pads.</p>	Tender Terms and Conditions prevail.
32	<p>Page 156: Clause 2 (b) 5 Sub-heading: Steam Generator</p> <p>It should have a built in thermostat, pressure safety valve & water level glass gauge inspection device or water level indication on screen visible from service area.</p> <p>Requested: – It should be also be with Water level probes for sensing the water level by Electronic water level regulator relay, which is better.</p>	Tender Terms and Conditions prevail.
33	<p>Page 156: Clause 2 (c) Sub-heading: Pipes, Valves and Components</p> <p>The piping system should be made of Stainless Steel / Brass / Copper</p> <p>Requested: Only SS 316 L should be allowed because of cost difference between Stainless Steel / Brass / Copper</p>	Tender Terms and Conditions prevail.
34	<p>Page 156: Clause 2 (c) Sub-heading: Pipes, Valves and Components</p> <p>All the hot pipes should be properly insulated. Safety valves should be made of brass/copper/stainless</p>	Tender Terms and Conditions prevail.

	<p>steel</p> <p>Requested: Safety valves should be stainless steel only</p>	
35	<p>Page 156: Clause 4 Sub-heading: Electrical Components</p> <p>The terminals & contacts should be housed in a water tight cabinet while the other electrical component should be directly mounted on sterilizer</p> <p>Requested: It should be housed inside the Electrical Cabinet and is kept inside the sterilizer and nothing should be seen outside, which is better safety feature.</p>	Tender Terms and Conditions prevail.
36	<p>Page 156: Clause 2 (e) 1 Sub-heading: Control System</p> <p>The control system should be microprocessor based PLC system specially designed for sterilization application.</p> <p>Requested: It should be Dual PLC as per EN 285.</p>	Tender Terms and Conditions prevail.
37	<p>Page 157: Clause 2 (e) 2 Sub-heading: Control System</p> <p>Multiple password access levels (specify number) should be provided to control access/operation of the machine preventing unauthorized access. These access levels should be user selectable. The control system should have CPU processor with battery back-up & nonvolatile memories, Digital input/output controls, analog measuring inputs & COM ports for printer & PC connectivity</p> <p>Requested: It should be also with RJ45 Ethernet connection & USB Port.</p>	It should be with RJ 45 Ethernet Connection & USB Port.
38	<p>Page 157: Clause 3 (j) Sub-heading: Water Consumption</p> <p>Specify water consumption levels</p> <p>Requested: It should be also with at least 50% water saving/recovery system.</p>	Tender Terms and Conditions prevail.
39	<p>Page 157: Clause 3 (k) Sub-heading: Vacuum Pump</p> <p>High vacuum pump (water ring type) with recycling facility for removal of air within the chamber should be provided & mounted on vibration isolator for quite operations. It should also have low water level alarm to protect it from dry run .</p> <p>Requested: It should have thermic relay/overload protection device, which is better.</p>	Tender Terms and Conditions prevail.

40	<p>Page 157: Clause 3 (n) Sub-heading: Directives & Standards It should meet EN ISO / IEC directives and product should be US FDA/European CE certified with four digit notified body number The manufacturer should have ISO 13485:2003 and EN 285 for Large Autoclaves (Europe) or USA: ST8 – Hospital Sterilizers.</p> <p>Requested: It should also have MDD directive and should be latest PED & validated according to EN ISO 17665</p>	Tender Terms and Conditions prevail.
41	<p>Page 158: Clause 4 Sub-heading: Double Door Washer Disinfectant 300-350 Litres with accessories.</p> <p>Requested: It must be specified in DIN Tray capacity, we suggest 12 DIN tray capacity and also our 12 DIN tray capacity washer disinfectant is of 280 Litres. Therefore kindly only mentioned DIN capacity & not the litres capacity.</p>	300-350 Litres (12 to 15 DIN tray capacity)
42	<p>Page 158: Clause 4 (g) Data interface RS232 should be available</p> <p>Requested: It should also have RJ45 Ethernet connection & USB Port.</p>	RJ 45/RS232 Ethernet connection and USB port.
43	<p>Page 159: Clause 4 (k) The washer should have 3 dosing pump (detergent, alkaline & lubrication) for process chemicals, instrument lubricants/ enzymatic cleaners</p> <p>Requested: It should be four pumps to be used with Detergent(Alkaline), Neutralizer/Rinse aid, Disinfectant & Lubricants.</p>	Tender Terms and Conditions prevail.
44	<p>Page 159: Clause 4 (k) Disinfection with hot water (85C)</p> <p>Requested: – It should be 85°C to 93°C as per EN 15883 validation standards</p>	Tender Terms and Conditions prevail.
45	<p>Page 159: Clause 2 Unit to have LCD display and operating console to have membrane key pad for durability or LCD touch screen display</p> <p>Requested: – 7” Touch Screen display is better. There is cost difference between the two therefore please only touch screen should be allowed.</p>	Tender Terms and Conditions prevail.
46	Page 159: Clause 3 (c)	Tender Terms and Conditions

	<p>Electronic adjustment of water level.</p> <p>Requested: – It should also have Internal Trolley detection, recognition and automatic cycle start as per trolley recognition, Spray arms rotation & obstruction detection systems.</p>	prevail.
47	<p>Page 159: Clause 4 The unit should also have an interface as standard for an optional batch printer.</p> <p>Requested: Should be non-fade able Ink type IN-BUILT PRINTER.</p>	Tender Terms and Conditions prevail.
48	<p>Page 160: Clause 5 .1 Sterilizer process should be suitable for sterilization of medical devices like flexible endoscopes, rigid endoscopes- both single channel and also dual channel and non-lumen, metal, non-metal heat & moisture sensitive instruments, like defib paddles etc. The sterilizer process must have maximum material device manufacturers' recommendations from major endoscopic equipment manufacturers</p> <p>Requested: It should not be Flexible Endoscopes as it require High Level Disinfection through cold sterilant chemicals.</p>	Tender Terms and Conditions prevail.
49	<p>We are also requesting you that budgetary cost should be minimum ₹ 7 Cr as duty & GST is in our scope & hence in ₹ 5 Cr, it is not possible to execute this job.</p>	Tender Terms and Conditions prevail.

All other terms & conditions remain unchanged.

Chief General Manager, HSCC (I) Ltd.
For and behalf of Director, CNCI, Kolkata