All Bidders

Amendment -II

Date: 20.03.2019

Project: Supply, Installation, Testing & Commissioning of CSSD for Super Speciality Block at Indira Gandhi Medical College, Shimla, H.P.

IFB No. HSCC/SES/CSSD/SSB/Shimla/2019 dated 31.01.2019

This has reference to above IFB.

The following Amendment may be noted which shall be treated as part of the

tenderdo	enderdocument and to be submitted duly signed & stamp along with tender.					
Sr. No.	Bidders' Queries	Reply				
1	1. Volume IV Page no 2 Horizontal Steam Sterilizer 550-600L or more & High Speed Sterilizer- Double door 250L with accessories. (Control System)	Horizontal Steam Sterilizer Double door 550-600L or more & High Speed Sterilizer- Double door 250L with accessories.				
	As per Specification Control system should have touch sensitive, 7 inches or more color display interface at operator loading side while it should have normal interface at unloading side. It is requested that Control system should have touch sensitive, 5 inches or more color display interface at operator loading side while it should have normal interface at unloading side	Control system should have touch sensitive ,5-7 inches or more color display interface at operator loading side while it should have normal interface at unloading side.				
	We request to give bigger range so that most of the manufacture can also quote. <u>Kindly do the same changes for both the sterilizers.(550-600L and 250L)</u>					
2	2. Vol IV Page no 7 Item No: 4Point No:d As per Specification Chamber Capacity: Operational volume should be 300 to 350L. Should supply 12 Nos of standard stainless steel DIN trays. It should be able to process minimum 12 DIN trays (Approx 480x250x50) in single process. The chamber should be made of SS304 or SS 316L quality with electro polished washed surfaces.	Chamber Capacity: Operational volume should be able to process minimum 12 DIN trays (Approx 480x250x50) in single process. The chamber should be made of SS 316L quality with electro polished washed surfaces.				

Request Chamber Capacity: Operational volume should be 250 to 350L. Should supply 12 Nos of standard stainless steel DIN trays. It should be able to process minimum 12 DIN trays (Approx 480x250x50) in single process. The chamber should be made of SS 316L quality with electro polished washed surfaces.	
Since the capacity of the wash chamber is always measurers in DIN Trays according to EN standards and Litre capacity is always be differ from one to other, while measuring the actual capacity of the wash chamber it is only depend on to accommodate the number of DIN trays in the chamber . So Litre capacity should be deleted and only DIN capacity should be mentioned.	
3. Vol IV Page no 8 Point no 5 As per Specification The washer disinfector shall be supplied with universal rack, 4 level racks for instrument tray, full size instrument tray as well as stop valves, anti-suction device and plastic water trap. Requested	4 -6 Levels racks
The washer disinfector shall be supplied with universal rack, 6 level racks for instrument tray, full size instrument tray as well as stop valves, anti-suction device and plastic water trap.	
Since you have asked for 12 DIN Trays capacity and which is practically possible to use in a 6 level racks. So we request you to kindly change it from 4 Level Racks to 6 Level racks.	
4. Vol IV Page no 8 Item no 5Point nol point no 4	i) Deleted ii) 100 – 120 L prevail.
Plasma/H2O2/Low Temperature Sterilizer(Double Door)- 120-150L	iii) Should be environment friendly and have
As per specification	no toxic by products or harmful residue
i)The sterilizer process must have maximum material device manufacturer's recommendations from major endoscopic equipment manufacturers.	and should approval of EPA or equivalent to guarantee its non-
Point should be deleted	harmful feature by bidder.
Since it is only available with one company and being an open tender it should be generalized so that most of the bidders can participate.	iv) Consumables having EPA-US/CE deleted
ii) Point no 4	

As per specification

Usable rectangular chamber having volume of minimum 120-150 Liters

Request

Usable rectangular chamber having volume of minimum 100-120 Liters or 90-120L

Since most of the leading manufacturers are having usable chamber volume is around 100L, so it should have given wide range for a bigger participation.

iii) Point no 8

As per specification

Should be environment friendly and have no toxic byproducts or harmful residue and should approval of EPA to guarantee its non-harmful feature.

Request

Should be environment friendly and have no toxic byproducts or harmful residue.

Please note EPA is an American agency which normally gives certifications for environment protection of systems which are manufactured in US only. Since our systems are based on EN standards which do not required EPA, so should be deleted.

iv) Point no 14

As per specification

Should quote same make consumables having EPA - US/CE as mentioned below:

- a) H²O²Sterilant 59%- Cassette or cup=100 load cycles
- b) Chemical Indicator strips-2000 strips for approx 100 Load Cycle
- c) Biological Indicator vials =100 nos

Request

Should quote consumables having EPA-US/CE as mentioned below:

- a) H2O2Sterilant 59%- Cassette or cup=100 load cycles
- b) Chemical Indicator strips-2000 strips for approx 100 Load Cycle
- c) Biological Indicator vials =100 nos

Please note the monitoring consumables are third party items and all plasma sterilizer manufacturers do produce or manufacture these items, so should be removed or amended.

_	D (Cl)	01 111 .1
5.	<u>Drying Cabinet</u>	Should be the same manufacturer of the sterilizer
	Vol IVPage No. 9	and washer disinfector –
	Item no 8, Point No 6	Deleted.
	As per technical specification	
	Should be the same manufacturer of the sterilizer and washer disinfector.	
	Request	
	Should be deleted.	
	Since this point is restricting the competition as some of the leading brand is only having either Sterilizer or Washer disinfector in their range of products. So this point should be deleted to have a healthy competition.	
6.	Item No. 1: Horizontal Sterilizer 550L – 600L or More	Tender terms & conditions
	Page No. 1 of Technical Specification: 1. Chamber & Doors: The chamber and doors should be made of solid, high quality 316L Stainless steel. The chamber should be jacketed to ensure the temperature uniformity in chamber. The chamber floor is slightly sloped towards an internal drain to facilitate drainage.	prevail.
	Request	
	Chamber thickness should be specified as minimum 8 mm for better against high thermo - mechanical stress due to high temperature & high pressure	
7.	Page No. 1 of Technical Specification:	The resultant surface should be
7.	2. Surface Treatment The resultant surface should be polished to less than 0.8 µm fineness to protect against corrosion.	polished to less than 0.2 µm fineness to protect against corrosion.
	Page No. 1 of Technical Specification: 2. Surface Treatment Request	
	The resultant surface should be polished to less than 0.2 µm fineness to protect against corrosion. Kindly amend the same.	
8	Page No. 1 of Technical Specification:	The Insulation Material Should
	3. 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. Request	Be Non - Toxic, Low Thermal Conductivity, Fire Resistant & Should Not Release Any Particles.
	Page No. 1 of Technical Specification:	

12	Page No. 2 of Technical Specification: 3. Electrical Components: the terminals & contacts	Tender prevail.	terms	&	conditions
12	Request Page No. 2 of Technical Specification: Primary piping & fittings should be stainless steel threaded and stainless steel triclamp fittings for wherever necessary for easy maintenance & hermitically sealing. Kindly add above point.	T. 1		C	152
	Page No. 2 of Technical Specification: Primary components: 316 quality triclamps or threaded fitting components like – Manual valve, non- return valve, pressure regulator, pneumatic valves, and steam trap etc.	Tender prevail.	terms	&	conditions
	Page No. 2 of Technical Specification: Primary piping & fittings should be stainless steel threaded and stainless steel triclamp fittings for wherever necessary for easy maintenance & hermitically sealing. Kindly amend the same.	T. 1		0	152
11	Page No. 2 of Technical Specification: Primary piping & fittings should be stainless steel threaded or stainless steel triclamp fittings. Request	Tender prevail.	terms	&	conditions
	Page No. 2 of Technical Specification: c) Pipes, Valves and Components All the process valves should be stainless steel 316L. Kindly amend the same.				
10	Page No. 2 of Technical Specification: c) Pipes, Valves and Components All the process valves should be stainless steel or Copper Valves or Red Brass Valves & should be pneumatically/electrically operated piston valves for longer trouble free operations.	Tender prevail.	terms	&	conditions
	Page No. 2 of Technical Specification: c) Pipes, Valves and Components: The piping system should be made of Stainless Steel 316L. Kindly amend the same.				
	Page No. 2 of Technical Specification: c) Pipes, Valves and Components: The piping system should be made of Stainless Steel / Brass / Copper. Request	Tender prevail.	terms	&	conditions
	The sterilizer jacket and door should be completely insulated to keep the autoclave cool on the outside. The Insulation Material Should Be Non - Toxic, Low Thermal Conductivity, Fire Resistant & Should Not Release Any Particles. Kindly amend the same.				

	should be housed in a water tight cabinet while the other electrical component should be directly mounted on sterilizer.	
	Request	
	Page No. 2 of Technical Specification: All Electrical & Electronic components including the terminals & contacts should be housed in a IP 55 protected water tight Electrical cabinet and should be directly mounted on sterilizer. No Electrical panels/connections should be seen outside the Steam Sterilizer and all the service should be done from the frontal service only. The Sterilizer should have side panels made of SS AISI 304 grade. Kindly amend the same.	
13	Page No. 2 of Technical Specification: e) Control System The control system should be microprocessor based PLC system specially designed for sterilization application.	Tender terms & conditions prevail.
	Request	
	Page No. 2 of Technical Specification: e) Control System The control system should be microprocessor based Dual PLC system specially designed for sterilization application.	
	Dual PLC is better as per EN 285 Standards. Kindly amend the same.	
14	Page No. 2 of Technical Specification: Apart from main PLC based control system the sterilizer should also have additional independent monitoring & documentation system which constantly cross checks the safety systems & time.	Tender terms & conditions prevail.
	Request	
	Page No. 2 of Technical Specification:	
	Dual PLC is better as per EN 285 Standards. Kindly amend the same.	
15	Page No. 2 of Technical Specification: 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.	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
	Request	measuring inputs & COM ports for printer & PC connectivity
	Page No. 2 of Technical Specification: 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 alongwith RS 232 & RJ 45 as per current standards.	along with RS 232 & RJ 45 as per current standards.

	Kindly amend the same.	
16	Page No. 2 of Technical Specification: f) Temperature and Pressure Sensors: 1. The sterilizer should have at least 2 temperature & pressure sensors one at chamber drain & one in Jacket. It should also have temperature & pressure sensor in chamber. Request Page No. 2 of Technical Specification: f) Temperature and Pressure Sensors: The sterilizer should have at least 2 temperature sensor & 2 pressure transducers for chamber drain and one Pressure Trandsducer & One temperature sensor in Jacket(as per EN 285 standards). Kindly amond the same	f) Temperature and Pressure Sensors: The sterilizer should have at least 2 temperature sensor & 2 pressure transducers for chamber drain and one Pressure Trandsducer& One temperature sensor in Jacket(as per EN 285 standards).
17	Rindly amend the same. Page No. 2 of Technical Specification: f) Temperature and Pressure Sensors: 2. The sensors should be PT100 sensors to confirm Class A of the IEC 571 standard, with accuracy of ± 0.1°C while the pressure sensor should have the accuracy 1% over the range of 0-5 bar. Request Page No. 2 of Technical Specification: f) Temperature and Pressure Sensors: 2. The sensors should be PT100 sensors to confirm Class A of the IEC 751 standard, with accuracy of ± 0.1°C while the pressure sensor should have the accuracy 1% over the range of 0-5 bar. Kindly amend the same.	f) Temperature and Pressure Sensors: 2. The sensors should be PT100 sensors to confirm Class A of the IEC 751 standard, with accuracy of ± 0.1°C while the pressure sensor should have the accuracy 1% over the range of 0-5 bar.
18	Page No. 2 of Technical Specification: g) Alarm All the alarms should be audio and visual. Request Page No. 2 of Technical Specification: g) Alarm All the alarms should be audio, visual and printed. Kindly amend the same.	Tender terms & conditions prevail.
19	Page No. 2 of Technical Specification: h) Loading/Unloading system: Sterilizer should have the two rails for easy loading, shelf rack with shelves (carriage) with 1 set of loading and unloading trolley. Request Page No. 2 of Technical Specification: h) Loading/Unloading system: The sterilizer should be supplied with two External Trolley & one Internal Trolley and the applicable number of STU baskets and should not have guide rails inside the chamber as this will have many folds, joints & sharp	h)Loading/Unloading system: The sterilizer should be supplied with two External Trolley & one Internal Trolley and the applicable number of STU baskets and should not have guide rails inside the chamber as this will have many folds, joints & sharp edges thus leading to personal injury while cleaning and inefficient cleaning leading to contamination.

	edges thus leading to personal injury while cleaning and inefficient cleaning leading to contamination. Kindly amend the same.	
20	Page No. 2 of Technical Specification: i) Cycle Documentation – Printer: The autoclave should be equipped with an alphanumeric Laser/thermal printer which prints the each cycle parameter performed by the sterilizer.	The autoclave should be equipped with an alpha-numeric Laser/thermal printer/ink printer which prints the each cycle parameter performed by the sterilizer.
	Request	otorinizor:
	Page No. 2 of Technical Specification: i) Cycle Documentation – Printer: The autoclave should be equipped with an ink type printer which prints the each cycle parameter performed by the sterilizer.	
	Ink type printer is good for Long Storage Records of Cycle Printout. We request you to kindly amend the same.	
21	Page No. 3 of Technical Specification: j) Specify water consumption levels. Request	Tender terms & conditions prevail.
	Page No. 3 of Technical Specification: j) Specify water consumption levels. It should have 95% Water saving system and should not require any cooling or chilled water for vacuum pump performance and it should need water (treated softened/RO) only for built in steam generator. To Specify water consumption levels: a. Water for Vacuum Pump: b. Water(treated softened/RO) for Built in Steam Generator: Kindly amend the same.	
22	Page No. 3 of Technical Specification: (k) 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. Request	Tender terms & conditions prevail.
	Page No. 3 of Technical Specification: (k) Vacuum Pump High performance vacuum pump should be provided & mounted on vibration isolator for quite operations. Kindly amend the above point.	
23	Page No. 3 of Technical Specification: (n) Directives & Standards: It should meet EN ISO / IEC directives and product should be US FDA/European CE certified with four digit notified body number. Request	Tender terms & conditions prevail.

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	Page No. 3 of Technical Specification: (n) Directives & Standards: The Sterilizer should comply with the Medical Devices Directive 93/42 / EEC , according 2007/47 / EC, and should be validated in compliance with the UNI EN ISO 17665-1: 2007 relative to the steam sterilization. The Sterilizer should follow the EN 285: 2009 standard. The Sterilizers also should comply with the directives 2004/108 / EC (EMC) and 2006/95 / EC (LVD) and electrical codes IEC 61010-1: 2013, IEC 61010-2040: 2005, IEC 60204-1: 2010, EN 61326-1:2013. The pressure vessels should be incompliance with PED 2014/68/UE(latest edition). It should be European CE/US FDA certified by notified body with four digit identification number. Kindly amend the same.				
24	Page No. 3 of Technical Specification:	Tender	terms	&	conditions
24	(n) Directives & Standards: The manufacturer should have ISO 13485:2003 and EN 285 for Large Autoclaves (Europe) or USA: ST8 – Hospital Sterilizers	prevail.	terms	α	conditions
	Request				
	Page No. 3 of Technical Specification: (n) Directives & Standards: The manufacturer should have ISO 13485:2012 and ISO 9001: 2015 Quality systems. Kindly amend the same.				
25	Page No. 3 of Technical Specification (p) Steam Sterilizer should have provision for connecting a ¾" line terminating in the shutoff valve, non-return valve, pressure relief valve, steam riser, condensate drain and other essential accessories (for future steam connection from the central boiler).	Tender prevail.	terms	&	conditions
	Request				
	Page No. 3 of Technical Specification (p) Steam Sterilizer should have provision for connecting a ¾" line terminating in the shutoff valve, non-return valve, pressure relief valve, steam riser, condensate drain and other essential accessories (for future steam connection from the central boiler) with in built steam filter. Kindly amend the same.				
	Item No. 2 – High Speed Sterilizer – Double Door 250 Litres with Accessories				
26	Page No. 4 of Technical Specification: 1. Chamber & Doors: The chamber and doors should be made of solid, high quality 316L Stainless steel. The chamber should be jacketed to ensure the temperature uniformity in chamber. The chamber floor is slightly sloped towards an internal drain to facilitate	Tender prevail.	terms	&	conditions

	drainage.	
	Request	
	Page No. 4 of Technical Specification:	
	Chamber thickness should be specified as minimum 8 mm for better against high thermo - mechanical stress due to high temperature & high pressure	
	Please add in the specification	
	Page No. 4 of Technical Specification: 2. Surface Treatment The resultant surface should be polished to less than 0.8 µm fineness to protect against corrosion.	The resultant surface should be polished to less than 0.2 µm fineness to protect against corrosion.
	Request	
	Page No. 4 of Technical Specification: 2. Surface Treatment The resultant surface should be polished to less than 0.2 μm fineness to protect against corrosion. Kindly amend the same.	
27	Page No. 4 of Technical Specification: 3. 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.	The Insulation Material Should Be Non - Toxic, Low Thermal Conductivity, Fire Resistant & Should Not Release Any Particles.
	Page No. 4 of Technical Specification: 3. Insulation: The sterilizer jacket and door should be completely insulated to keep the autoclave cool on the outside. The Insulation Material Should Be Non - Toxic, Low Thermal Conductivity, Fire Resistant & Should Not Release Any Particles. Kindly amond the same	
	Kindly amend the same.	
	Page No. 4 of Technical Specification: c) Pipes, Valves and Components: The piping system should be made of Stainless Steel / Brass / Copper.	Tender terms & conditions prevail.
	Request	
	Page No. 4 of Technical Specification: c) Pipes, Valves and Components: The piping system should be made of Stainless Steel 316L. Kindly amend the same.	
28	Page No. 4 of Technical Specification: c) Pipes, Valves and Components All the process valves should be stainless steel or Copper Valves or Red Brass Valves & should be	Tender terms & conditions prevail.

	pneumatically/electrically operated piston valves for longer trouble free operations. Request Page No. 4 of Technical Specification: c) Pipes, Valves and Components All the process valves should be stainless steel 316L. Kindly amend the same.				
29	Page No. 4 of Technical Specification: 1. Primary piping & fittings should be stainless steel threaded or stainless steel triclamp fittings. Request Page No. 4 of Technical Specification: Primary piping & fittings should be stainless steel threaded and stainless steel triclamp fittings for wherever necessary for easy maintenance & hermitically sealing. Kindly amend the same.	Tender prevail.	terms	&	conditions
30	Page No. 4 of Technical Specification: Primary components: 316 quality triclamps or threaded fitting components like – Manual valve, non- return valve, pressure regulator, pneumatic valves, and steam trap etc. Request Page No. 4 of Technical Specification: Primary piping & fittings should be stainless steel threaded and stainless steel triclamp fittings for wherever necessary for easy maintenance & hermitically sealing. Kindly add above point.	Tender prevail.	terms	&	conditions
31	Page No. 4 of Technical Specification: Electrical Components: the terminals & contacts should be housed in a water tight cabinet while the other electrical component should be directly mounted on sterilizer. Request Page No. 4 of Technical Specification: All Electrical & Electronic components including the terminals & contacts should be housed in a IP 55 protected water tight Electrical cabinet and should be directly mounted on sterilizer. No Electrical panels/connections should be seen outside the Steam Sterilizer and all the service should be done from the frontal service only. The Sterilizer should have side panels made of SS AISI 304 grade. Kindly amend the same.	Tender prevail.	terms	&	conditions

32	Page No. 4 of Technical Specification:	Tender terms & conditions
32	e) Control System	prevail.
	The control system should be microprocessor based	provan.
	PLC system specially designed for sterilization	
	application.	
	Request Representation of Transport of Control of Transport of Transport of Control of C	
	Page No. 4 of Technical Specification:	
	e) Control System The control system should be microprocessor based	
	Dual PLC system specially designed for sterilization	
	application.	
	Dual PLC is better as per EN 285 Standards. Kindly	
	amend the same.	
22	Dans No. 5 of Tanhairal Constitution	T
33	Page No. 5 of Technical Specification: Apart from main PLC based control system the sterilizer	Tender terms & conditions prevail.
	should also have additional independent monitoring &	prevaii.
	documentation system which constantly cross checks	
	the safety systems & time.	
	Request	
	Page No. 5 of Technical Specification:	
	Dual PLC is better as per EN 285 Standards. Kindly	
	amend the same.	
34	Page No. 5 of Technical Specification:	These access levels should be
	These access levels should be user selectable. The	user selectable. The control
	control system should have CPU processor with battery	system should have CPU
	back-up & nonvolatile memories, Digital input/output	processor with battery back-up
	controls, analog measuring inputs & COM ports for printer & PC connectivity.	& nonvolatile memories, Digital input/output controls, analog
	printer a r e definicativity.	measuring inputs & COM ports
	Request	for printer & PC connectivity
		alongwith RS 232 & RJ 45 as
	Page No. 5 of Technical Specification:	per current standards.
	These access levels should be user selectable. The control system should have CPU processor with battery	
	back-up & non volatile memories, Digital input/output	
	controls, analog measuring inputs & COM ports for	
	printer & PC connectivity alongwith RS 232 & RJ 45 as	
	per current standards.	
	Kindly amend the same.	0.7
35	Page No. 5 of Technical Specification:	f) Temperature and Pressure Sensors:
	f) Temperature and Pressure Sensors: 1. The sterilizer should have at least 2 temperature &	The sterilizer should have at
	pressure sensors one at chamber drain & one in Jacket.	least 2 temperature sensor & 2
	It should also have temperature & pressure sensor in	pressure transducers for
	chamber.	chamber drain and one
		Pressure Trandsducer & One
	Request	temperature sensor in
	Page No. 5 of Technical Specification:	Jacket(as per EN 285 standards).
	f) Temperature and Pressure Sensors:	Staridards).
	The sterilizer should have at least 2 temperature sensor	
	& 2 pressure transducers for chamber drain and one	

	Pressure Trandsducer& One temperature sensor in Jacket(as per EN 285 standards). Kindly amend the same.	
36	Page No. 5 of Technical Specification: f) Temperature and Pressure Sensors: 2. The sensors should be PT100 sensors to confirm Class A of the IEC 571 standard, with accuracy of ± 0.1°C while the pressure sensor should have the accuracy 1% over the range of 0-5 bar. Request Page No. 5 of Technical Specification: f) Temperature and Pressure Sensors:	f) Temperature and Pressure Sensors: 2. The sensors should be PT100 sensors to confirm Class A of the IEC 751 standard, with accuracy of ± 0.1°C while the pressure sensor should have the accuracy 1% over the range of 0-5 bar.
	2. The sensors should be PT100 sensors to confirm Class A of the IEC 751 standard, with accuracy of ± 0.1°C while the pressure sensor should have the accuracy 1% over the range of 0-5 bar. Kindly amend the same.	
37	Page No. 5 of Technical Specification: g) Alarm All the alarms should be audio and visual.	Tender terms & conditions prevail.
	Request Page No. 5 of Technical Specification: g) Alarm All the alarms should be audio, visual and printed. Kindly amend the same.	
38	Page No. 5 of Technical Specification: h) Loading/Unloading system: Sterilizer should have the two rails for easy loading, shelf rack with shelves (carriage) with 1 set of loading and unloading trolley.	h) Loading/Unloading system: The sterilizer should be supplied with two External Trolley & one Internal Trolley and the applicable number of
	Page No. 5 of Technical Specification: h) Loading/Unloading system: The sterilizer should be supplied with two External Trolley & one Internal Trolley and the applicable number of STU baskets and should not have guide rails inside the chamber as this will have many folds, joints & sharp edges thus leading to personal injury while cleaning and inefficient cleaning leading to contamination Kindly amend the same.	and the applicable number of STU baskets and should not have guide rails inside the chamber as this will have many folds, joints & sharp edges thus leading to personal injury while cleaning and inefficient cleaning leading to contamination
39	Page No. 5 of Technical Specification: i) Cycle Documentation – Printer: The autoclave should be equipped with an alphanumeric Laser/thermal printer which prints the each cycle parameter performed by the sterilizer.	The autoclave should be equipped with an alpha-numeric Laser/thermal printer/ink type printer which prints the each cycle parameter performed by the sterilizer.
	Request Page No. 5 of Technical Specification: i) Cycle Documentation – Printer:	

	The autoclave should be equipped with an ink type printer which prints the each cycle parameter performed by the sterilizer.				
	Ink type printer is good for Long Storage Records of Cycle Printout. We request you to kindly amend the same.				
40	Page No. 5 of Technical Specification: j) Specify water consumption levels.	Tender prevail.	terms	&	conditions
	Request				
	Page No. 5 of Technical Specification: j) Specify water consumption levels. It should have 95% Water saving system and should not require any cooling or chilled water for vacuum pump performance and it should need water (treated softened/RO) only for built in steam generator. To Specify water consumption levels: a. Water for Vacuum Pump: b. Water(treated softened/RO) for Built in Steam Generator: Kindly amend the same.				
41	Page No. 5 of Technical Specification: (k) 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.	Tender prevail.	terms	&	conditions
	Request				
	Page No. 5 of Technical Specification:				
	(k) Vacuum Pump High performance vacuum pump should be provided & mounted on vibration isolator for quite operations. Kindly amend the above point.				
42	Page No. 6 of Technical Specification: (n) Directives & Standards: It should meet EN ISO / IEC directives and product should be US FDA/European CE certified with four digit notified body number.	Tender prevail.	terms	&	conditions
	Request				
	Page No. 6 of Technical Specification: (n) Directives & Standards: The Sterilizer should comply with the Medical Devices Directive 93/42 / EEC , according 2007/47 / EC, and should be validated in compliance with the UNI EN ISO 17665-1: 2007 relative to the steam sterilization. The Sterilizer should follow the EN 285: 2009 standard. The Sterilizers also should comply with the directives 2004/108 / EC (EMC) and 2006/95 / EC (LVD) and electrical codes IEC 61010-1: 2013, IEC 61010-2040: 2005, IEC 60204-1: 2010, EN 61326-1:2013. The pressure vessels should be in compliance with PED 2014/68/UE(latest edition). It should be European CE/ US FDA certified by notified body with four digit identification number				

43	Page No. 6 of Technical Specification: (n) Directives & Standards: The manufacturer should have ISO 13485:2003 and EN 285 for Large Autoclaves (Europe) or USA: ST8 – Hospital Sterilizers	Tender terms & conditions prevail.
	Request Page No. 6 of Technical Specification: (n) Directives & Standards:	
	The manufacturer should have ISO 13485:2012 and ISO 9001 : 2015 Quality systems.	
44	Item No. 3 - RAPID STERILIZER (FLASH AUTOCLAVE)TABLE TOP STERILIZER WITH ACCESSORIES FOR TSSU	
	Page No. 6 of Technical Specification: Capacity: minimum 20 L Request	Capacity: minimum 18-20 L
	Page No. 6 of Technical Specification: 2. Capacity: minimum 18-20 L	
	Page No. 7 of Technical Specification: Item No. 4 - DOUBLE DOOR WASHER DISINFECTOR 300-350 Litre WITH ACCESSORIES	Tender terms & conditions prevail.
	Request	
	Page No. 7 of Technical Specification: Should be specified in useable chamber capacity in terms of 12 DIN Trays Processing Capacity. It should be noted that every OEM has different design and chamber capacity.	
	Page No. 7 of Technical Specification: d. Chamber Capacity: Chamber capacityoperational Volume should be 300 to 350 L. Should supply 12 Nos of standard Stainless Steel DIN trays. It should also be able to process minimum 12 DIN trays (Approx480X250X50) in single process. The chamber should be made of S.S. 304 or S.S. 316L 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 dimension should suit the capacity.	Chamber Capacity: Operational volume should be able to process minimum 12 DIN trays (Approx 480x250x50) in single process. The chamber should be made of SS 316L quality with electro polished washed surfaces.
	Request	
	Page No. 7 of Technical Specification:	
	d. Should be specified in useable chamber capacity in terms of 12 DIN trays processing capacity and chamber material should be SS AISI 316L for better against chemo thermal stress & corrosion and for better cleaning	
	Kindly amend the same.	
	Page No. 7 of Technical Specification: Washer should have following features:	Tender terms & conditions prevail.

	I -	
	For shortest possible filling and draining phases, higher	
	capacity quick opening valves should be used so that	
	short total process time is achieved. The design should	
	focus on saving the environment through reduced	
	consumptions of all utilities.	
	Request	
	Page No. 7 of Technical Specification:	
	Washer should have following features:	
	a) For shortest possible filling and draining phases,	
	higher capacity pneumatic valves should be used so	
	that short total process time is achieved. The design	
	should focus on saving the environment through	
	reduced consumptions of all utilities.	
	Kindly amend as pneumatic valves are better for	
	long run & high durability.	
	Page No. 7 of Technical Specification:	Data interface RS 232 & RJ45
	g. Data interface RS232 should be available.	LAN should be available.
	Request	
	Page No. 7 of Technical Specification:	
	Data interface RS 232 & RJ45 LAN should be available.	
	Kindly amend as RS232 & RJ45 LAN is better.	
	Page No. 7 of Technical Specification:	Washer should be equipped
	Washer should be equipped with audible alarm that	with audible alarm that alerts if
	alerts if error code occurs.	error code occurs and should
	alerts if error code occurs.	
	Damusat	also be displayed
	<u>Request</u>	
	Page No. 7 of Technical Specification:	
	i.Washer should be equipped with audible alarm that	
	alerts if error code occurs and should also be	
	displayed and printed.	
	Kindly amend the same.	
	Page No. 7 of Technical Specification:	Tender terms & conditions
	Unit to have LCD display and operating console to have	prevail
	membrane key pad for durability or LCD touch screen	'
	display.	
	Request	
	Troquoti	
	Page No. 7 of Technical Specification:	
	2. Unit to have touch screen display and operating	
	console to have membrane key pad for durability or	
	touch screen display.	
	Kindly amend the same.	
	Page No. 7 of Technical Specification:	Batch printer/Ink Printer
	5. The unit should also have an interface as standard	
	for an optional batch printer.	
1	Request	
	rtoquoot	
	- Itoquoot	
	Page No. 7 of Technical Specification:	
	Page No. 7 of Technical Specification: The unit should also have an interface as standard for	
	Page No. 7 of Technical Specification:	
	Page No. 7 of Technical Specification: The unit should also have an interface as standard for	

cycles print out. Kindly amend the same.				
Page No. 8 of Technical Specification: The washer disinfector shall be supplied with universal rack, 4 level racks for instrument tray, full size instrument tray as well as stop valves, anti-suction device and plastic water trap.	4 -6 Levels racks	ks		
Request				
Page No. 8 of Technical Specification: The washer disinfector shall be supplied with universal rack, 4 level racks (3 DIN trays/Level) / 6 level racks (2DIN trays/Level) for instrument tray, full size instrument tray as well as stop valves, anti-suction device and plastic water trap. Kindly amend the same.				
5. PLASMA/ H2O2 /LOW TEMPERATURE STRILIZER (Double door)-120-150 L				
Page No. 8 of Technical Specification: 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, nonmetal heat & moisture sensitive instruments, like defib paddles etc. The sterilizer process must have maximum material device manufacturers' recommendations from major endoscopic equipment manufacturers.	Tender prevail.	terms	&	conditions
Request				
Page No. 8 of Technical Specification: 1. Sterilizer process should be able to process materials sensitive to temperatures above 50 deg C and suitable for sterilization of medical devices like rigid endoscopesboth single channel and also dual channel and non lumen, metal, nonmetal heat & moisture sensitive instruments, like defib paddles etc. The sterilizer process must have maximum material device manufacturers' recommendations from major endoscopic equipment manufacturers.				
We request you to kindly delete sterilization for flexible endoscope as it requires high level disinfection.				
Page No. 8 of Technical Specification: 11. Sterilization should be validated using US-FDA/European CE approved Chemical Indicators and Self-Contained Biological indicators with 24 hour read out time.	Tender prevail	terms	&	conditions
Request				
Page No. 8 of Technical Specification:				
It should be in built Biological incubator & Reader. Kindly add in the specification.				
 Page No. 8 of Technical Specification: 12. Should be able to run on Electricity 50 Hz	Tender prevail.	terms	&	conditions

three phase meeting IEC-60601-1-2 :2001General Requirements of Safety for Electromagnetic Compatibility or should comply with 89/366/EEC; EMC- directive. Request Page No. 8 of Technical Specification: 12. Should meet the requirements of 93/42 / EEC, after 2007/47 / EC and the requirements of EN ISO 14937: 2009. Complies with the directives 2004/108 / EC (EMC) and 2006/95 / EC (LVD). It also complies with the product standards CE EN 61010-1:2013, IEC 61010-2040: 2005, IEC 60204-1: 2010, EN 61326-1: 2013 and IEC 60601-1-2: 2001. Kindly amend the same. Page No. 8 of Technical Specification: 13. Each Sterilizer should be supplied complete with accessories like One no. six Vial incubator(220V), 6	Tender prevail.	terms	&	conditions
no.s instrument trays of three different sizes with Lids. Request Page No. 8 of Technical Specification: Kindly add: It should be in built Biological incubator & Reader. Kindly add the same.				
Page No. 8 of Technical Specification: 14. Should quote same make consumables having EPA-US/ CE as mentioned below: a H2O2 Sterilant 59% - Cassette or Cup= for 100 load cycles, b Chemical Indicator Strip (for putting inside single item packs)= 2000 strips (for approx 100 load cycles), c Biological Indicator Vials = 100 no.s	Tender prevail.		&	conditions
Page No. 8 of Technical Specification: 14. Should quote same make consumables having EPA-US/ CE as mentioned below: a H2O2 Sterilant 58% - Cassette or Cup= for 100 load cycles, b Chemical Indicator Strip (for putting inside single item packs)= 2000 strips (for approx 100 load cycles), c Biological Indicator Vials = 100 no.s				
Should be not more than 58 % and should uses cartridges containing 12 hydrogen capsules each. Each capsule SHOULD contains 2 ml of 58% hydrogen peroxide. According to the type of material loaded inside the chamber, each cartridge will always ensure a number of sterilization cycles ranging between6 and 12.				
Kindly amend the same.				

Request			
Page No. 8 of Technical Specification: Item No. 6 - ULTRASONIC CLEANER (45 - 50 L) Kindly amend the same.			
Page No. 8 of Technical Specification: The units should be a compact free-standing bench model, with a built-in tank manufactured from high-quality (316/304) stainless steel and a solid-state generator that sends ultrasonic (approx 40 KHz) impulses through wash water containing detergent and electrical heating; microprocessor controlled display with memory time and temperature functions. Request	Tender terms & conditions prevail.		
Page No. 8 of Technical Specification: a. The units should be a compact free-standing bench model, with a built-in tank manufactured from high-quality 316L stainless steel and a solid-state generator that sends ultrasonic (approx 40 KHz) impulses through wash water containing detergent and electrical heating; microprocessor controlled display with memory time and temperature functions. Kindly amend the same.			
Page No. 8 of Technical Specification: c. The tank should be made of solid stainless steel (316/304).	Tender terms & conditions prevail.		
Request			
Page No. 8 of Technical Specification: c. The tank should be made of solid stainless steel 316L. Kindly amend the same.			
f. Capacity should be 40 L Request	Capacity should be 40L – 50L		
f. Capacity should be 45 – 50 L.			
Kindly amend the same.			
Page No. 9 of Technical Specification Item No. 8 – Drying Cabinet Inner chamber should be made up of stainless steel and outer chamber should be of epoxy painted CRCA sheets	Inner chamber should be made up of stainless steel and outer chamber should be of epoxy painted CRCA sheets/SS-304		
Request			
Page No. 9 of Technical Specification			
Should be completely AISI 304L is better for aesthetic &easy cleaning eithlesscontamination. Kindly amend the same.			
Page No. 9 of Technical Specification 5. Capacity-275L Request	Capacity – 275-300 L or		
Page No. 9 of Technical Specification			

	5. Capacity-300L.	
	Page No. 10 of Technical Specification Item No. 13 – Wash Stations with 2 Sinks for Dirty Area Size Approx. (LxWxH): 2000x900x700 mm (whd) with sink sizes of 40x500x250mm (wdh)	Size Approx. (LxWxH): 2000x900x700 mm (whd) with sink sizes of 40x500x250mm (wdh)
	Request Page No. 10 of Technical Specification Item No. 13 – Wash Stations with 2 Sinks for Dirty Area	
	Kindly note that in BOQ size has been mentioned 2000x750x850.	
	We request you to kindly amend as per technical specification.	
	Page No. 12& 13 of Technical Specification: Item No. 20 - Modular Sterilizing Basket Size: 585x395x195 Item No. 21 - Modular Sterilizing Basket Size: 585x395x100	Modular Sterilizing Basket Size :585x395x100/600 x300x290mm
	Request Page No. 12& 13 of Technical Specification: Item No. 20 - Modular Sterilizing Basket Size: 600 x 300 x 290	
	Kindly note that Specification of Modular Sterilizing Basket asked in tender is as per SPRI standard Size while Sterilizer has been asked as per STU standard. We request you to kindly amend the size as per STU.	
	Furniture Items	All CSSD Furniture items should be accepted with ±10%
	All CSSD Furniture items should be accepted with $\pm 10\%$ deviations.	deviations.
	Kindly amend the same.	
A 11 41	. 0 1'.' 1 1	

All other terms & conditions remain unchanged.

Sr. Chief General Manager -I, HSCC (I) Ltd. For and behalf of Principal, IGMC, Shimla