ADDENDUM NO.2

TO: ALL INTRESTED BIDDERS

DATE: 28TH FEBRUARY 2024

LOT 7 CSSD

Amendments to Appendix C – List of Equipment to be provided under Lease for **LOT 7**

SL No.	Lot	Department	Sub Department	Item Name	Technical Specification Code
1	7	CSSD	Recycling	150 Litre Autoclave	MoH-LEA-7-1
2	7	CSSD	Recycling	21 Litre Ultrasonic Washer	MoH-LEA-7-2
3	7	CSSD	Recycling	250 Litre Autoclave	MoH-LEA-7-3
4	7	CSSD	Recycling	325 Litre Autoclave	MoH-LEA-7-4
5	7	CSSD	Recycling	900 Litre Autoclave	MoH-LEA-7-5
6	7	CSSD	Recycling	Cart Cabinet for Storage and Execrating Sets	MoH-LEA-7-6
7	7	CSSD	Recycling	Flash Autoclave Table Top	MoH-LEA-7-7
8	7	CSSD	Recycling	Gas Plasma Sterilizer	MoH-LEA-7-8
9	7	CSSD	Waste Collection & Destruction	Incinerator 100 Kg	MoH-LEA-7-9
10	7	CSSD	Waste Collection & Destruction	Incinerator 150 Kg	MoH-LEA-7-10
11	7	CSSD	Waste Collection & Destruction Waste Collection &	Incinerator 200 Kg	MoH-LEA-7-11
12	7	CSSD	Destruction	Incinerator 25 Kg	MoH-LEA-7-12
13	7	CSSD	Waste Collection & Destruction	Incinerator 50 Kg	MoH-LEA-7-13
14	7	CSSD	Recycling	Packing Table	MoH-LEA-7-14
15	7	CSSD	Recycling	Pressure Steam Gun/ Water For Cart Washing	MoH-LEA-7-15
16	7	CSSD	Recycling	Small Autoclave 40 Liter	MoH-LEA-7-16
17	7	CSSD	Recycling	Storage Cabinet	MoH-LEA-7-17
18	7	CSSD	Recycling	Surgical Instruments Sets	MoH-LEA-7-18
19	7	CSSD	Recycling	Trolly	MoH-LEA-7-19
20	7	CSSD	Recycling	Trolly Cabinet	MoH-LEA-7-20
21	7	CSSD	Recycling	Under Counter Washer 150 Liter	MoH-LEA-7-21
22	7	CSSD	Recycling	Unpacking Table	MoH-LEA-7-22
23	7	CSSD	Recycling	Warmining Cabinet	MoH-LEA-7-23
24	7	CSSD	Recycling	Washer for Endoscopy	MoH-LEA-7-24
25	7	CSSD	Recycling	Washer Sink with All Acc'	MoH-LEA-7-25
26	7	CSSD	Recycling	Washing Machine	MoH-LEA-7-26

27	7	CSSD	Recycling	Water Jet System	MoH-LEA-7-27
28	7	CSSD	Recycling	Working Station	MoH-LEA-7-28
29	7	CSSD	Recycling	WORKING TABLE	MoH-LEA-7-29

Amendments to Appendix D - Specifications for Equipment to be Supplied under Lease Lot 7

Departm	ent	CSSD	Room	Recycling		
			Name/No.			
Item Cod	de	MOH-LEA-7-1	Item	150 Litre Autoclave		
No.			Description			
1. Gener						
Working V						
		Up to 136°C, 2.2 Bar	(277°F, 32 psi)			
	Format Top					
Loading H						
		Electrical OR House St				
Heat Inpu		11.2kW/internal OR 1	.2kW/house (Three p	nase)		
		ns diameter x depth				
		5mm x 720mm)				
		ıswxdxh 2″(660mmx840mmx	(1020mm)			
Floor Weigh		•	102011111)			
363.8lbs (Jaueu)				
		ion w x d x h (and Do	or Swina)			
		6" (965mm x 1146mm		22 1″\		
2. Compos		O (905)IIII X III-OHIII	X 10-1011111)(300111111;	22.1)		
2.1		e Autoclave				
	130 Lici	C / (deocia v c			<u> </u>	
4	Quality	standards				
4.1		cturing standards	ISO/ FDA/CE or any	other equal and recognized	l internationally	
		3	standards		,	
4.2	Conforr	nity to standards	CE marked or any o	ther equal or recognized int	ernational document	
5	Delivery	point				
5.1	See Sch	nedule	For inspection and t	esting		
6		tion and testing				
	Complet	te installation and set	up of the machine as	per manufacturer's instructi	ons	
7	Training					
7.1	User Tr	aining	On site user training	on operation and daily up	keep	
7.2	Mainten	ance training	On-site maintenance	training on preventive mai	ntenance	
8	Technic	al documentations				
8.1	User ma	anuals	1 Set			
9	Commis	sioning				
9.1			f the devices to the s	atisfaction of the user.		
10	Warran	-				
10.1	Equipme		Minimum of one year	ar after commissioning on a	ll parts.	
10.2	Fauinme	ent System	Nil			

Department	CSSD	Room Name/No.	Recycling
Item Code No.	MOH-LEA-7-2	Item Description	21 Litre Ultrasonic Washer

600x330x410mm 235/8"x13"x161/8" External dimension LxWxH: Tank dimension LxWxH: 500x300x150mm 1911/16"x1113/16"x515/16

21 I - 5.55 gal Capacity:

W peak power: 800

Power connection: 230/240V -50/60Hz

Degasing function

Adjustable cleaning time: 0-90 minutes

Heating	power: 1000				
2. Comp	osition				
2.1	21 Litre Ultrasonic Washer				
4	Quality standards				
4.1	Manufacturing standards	ISO/ FDA/CE or any other equal and recognized internationally standards			
4.2	Conformity to standards	CE marked or any other equal or recognized international document			
5	Delivery point				
5.1	See Schedule	For inspection and testing			
6	Installation and testing	stallation and testing			
	Complete installation and set	up of the machine as per manufacturer's instructions			
7	Training				
7.1	User Training	On site user training on operation and daily up keep			
7.2	Maintenance training	On-site maintenance training on preventive maintenance			
8	Technical documentations				
8.1	User manuals	1 Set			
9	Commissioning				
9.1	Testing and commissioning o	f the devices to the satisfaction of the user.			
10	Warranty				
10.1	Equipment	Minimum of one year after commissioning on all parts.			
10.2	Equipment System	Nil			

Department	CSSD	Room Name/No.	Recycling		
Item Code	MOH-LEA-7-3	Item	250 Litre Autoclave		
No.		Description			
	4.0 (5.1)				

1. General Description

- 1.1 Main Unit Horizontal
- 1.1.1 Application: For sterilization of hospitals porous and non- porous Loads.
- 1.1.2 Sterilization agent: Saturated steam with inbuilt steam generator
- 1.1.3 Sterilization cycle: Fully automatic with Pre vacuum, heating (steam pulsating), sterilization (holding), post vacuum (drying). With inbuilt printer capable of printing each successful sterilization cycle
- 1.1.4 Sterilization: 121oC to 135oC, selectable programs for different kind temperature range of loads
- 1.1.5 Pressure equalization: By sterile HEPA filter, replaceable
- 1.2 Sterilization chamber design and capacity: Horizontal type, 250 litres, all high-grade stainless-steel
- 1.2.1 Sterilization Chamber door: Fully automatic, hydraulic, vertical or horizontal sliding.
- 1.3 Control unit: Microprocessor based controlling all operational cycles With large LCD or similar display of cycle progress i.e. temperature, pressures and time.

With different programmable cycle programs for different type of loads.

- 1.4 Steam generator: In built, Electrical heating three phase 415V, 50 Hz
- 1.5 Water to steam generator: De- carbonated water to safe guard heating element.

Suitable RO filter units to be installed

- 1.6 Safety features: The autoclave should have major safety features such as: Safety pressure relief valve: Door lock under pressure
- 2. Composition

2.1	250 Litre Autoclave			
4	Quality standards			
4.1	Manufacturing standards	ISO/ FDA/CE or any other equal and recognized internationally standards		
4.2	Conformity to standards	CE marked or any other equal or recognized international document		
5	Delivery point			
5.1	See Schedule	For inspection and testing		
6	Installation and testing			
	Complete installation and setup of the machine as per manufacturer's instructions			
7	Training			
7.1	User Training	On site user training on operation and daily up keep		
7.2	Maintenance training	On-site maintenance training on preventive maintenance		
8	Technical documentations			
8.1	User manuals	1 Set		
9	Commissioning			
9.1	Testing and commissioning or	f the devices to the satisfaction of the user.		
10	Warranty			
10.1	Equipment	Minimum of one year after commissioning on all parts.		
10.2	Equipment System	Nil Nil		

Department	CSSD	Room Name/No.	Recycling
Item Code No.	MOH-LEA-7-4	Item Description	325 Litre Autoclave

- 1.1 Main Unit Horizontal
- 1.1.1 Application: For sterilization of hospitals porous and non- porous Loads.
- 1.1.2 Sterilization agent: Saturated steam with inbuilt steam generator
- 1.1.3 Sterilization cycle: Fully automatic with Pre vacuum, heating (steam pulsating), sterilization (holding), post vacuum (drying). With inbuilt printer capable of printing each successful sterilization cycle
- 1.1.4 Sterilization: 121oC to 135oC, selectable programs for different kind temperature range of loads
- 1.1.5 Pressure equalization: By sterile HEPA filter, replaceable
- 1.2 Sterilization chamber design and capacity: Horizontal type, 325 litres, all high-grade stainless-steel construction
- 1.2.1 Sterilization Chamber door: Fully automatic, hydraulic, vertical or horizontal sliding.
- 1.3 Control unit: Microprocessor based controlling all operational cycles with large LCD or similar display of cycle progress i.e. temperature, pressures and time.

With different programmable cycle programs for different type of loads.

- 1.4 Steam generator: In built, Electrical heating three phase 415V, 50 Hz
- 1.5 Water to steam generator: De- carbonated water to safe guard heating element.

Suitable RO filter units to be installed

1.6 Safety features: The autoclave should have major safety features such as: Safety pressure relief valve: Door lock under pressure

2. Com	nposition				
2.1	325 Litre Autoclave				
4	Quality standards				
4.1	Manufacturing standards	ISO/ FDA/CE or any other equal and recognized internationally standards			
4.2	Conformity to standards	CE marked or any other equal or recognized international document			
5	Delivery point	•			
5.1	See Schedule	For inspection and testing			
6	Installation and testing				
	Complete installation and se	tup of the machine as per manufacturer's instructions			
7	Training				
7.1	User Training	On site user training on operation and daily up keep			
7.2	Maintenance training	On-site maintenance training on preventive maintenance			
8	Technical documentations	<u> </u>			

8.1	User manuals	1 Set				
9	Commissioning					
9.1	Testing and commissioning of the devices to the satisfaction of the user.					
10	Warranty					
10.1	Equipment	Minimum of one year	ar after commissioning on a	ll parts.		
10.2	Equipment System	Nil				

Name/No. Item Code MOH-LEA-7-5 Item 900 Litre Autoclave Description 1. General Description			
No. Description 1. General Description			
1. General Description			
• For 900 litres capacity ,4 pre-set sterilization programs • Program and customize cycle par	rameters to mee	t	
your needs • High precision control system for accurate sterilization results • Integrated prin			
documentation (optional) • PC Communication port enables storage of sterilization results •	 Temperature a 	nd	
pressure monitoring • User friendly, intuitive display • Cycle information recovery in the case			
cycle interruption • Insufficient water detector with automatic shutoff • Consistent monitoring of temperature			
and pressure for realtime accurate results • Water-level sensors prevent cycle activation when insufficient			
water is detected in the chamber or reservoir			
2. Composition			
2.1 900 Litre Autoclave			
4 Quality standards			
4.1 Manufacturing standards ISO/ FDA/CE or any other equal and recognized int	iternationally		
standards			
4.2 Conformity to standards CE marked or any other equal or recognized internal	national documer	Ιτ	
5 Delivery point 5.1 See Schedule For inspection and testing			
	•		
Complete installation and setup of the machine as per manufacturer's instructions Training	5		
	•		
7.2 Maintenance training On-site maintenance training on preventive mainten 8 Technical documentations	enance		
8.1 User manuals 1 Set			
9 Commissioning			
9.1 Testing and commissioning of the devices to the satisfaction of the user.			
10 Warranty			
10.1 Equipment Minimum of one year after commissioning on all pa	arts.		
10.2 Equipment System Nil	4.65		

Depart	ment	CSSD	Room Name/No.	Recycling	
Item Co	ode	MOH-LEA-7-6	Item Description	Cart Cabinet For Storage And Execrating Sets	
1. Gene	ral Desc	ription			
1.1. 1.2. 1.3. 1.4. 2. Comp	Should H Should H Size Of t	e S.S Sterile Storage M Have Mono Steered, Ar Have 5 Shelves App. 2 he Mesh Basket App. 3	ntistatic 5" Castors ~3" Depth	op 6' Customized according	to locations
2.1		binet For Storage And ing Sets			
4	Quality	standards			
4.1	1	cturing standards	ISO/ FDA/CE or any standards	other equal and recognized	d internationally
4.2	Confor	mity to standards	CE marked or any o	ther equal or recognized int	ternational documer

5	Delivery point				
5.1	See Schedule	For inspection and testing			
6	Installation and testing				
	Complete installation and set	up of the machine as per manufacturer's instructions			
7	Training				
7.1	User Training On site user training on operation and daily up keep				
7.2	Maintenance training On-site maintenance training on preventive maintenance				
8	Technical documentations				
8.1	User manuals	1 Set			
9	Commissioning				
9.1	Testing and commissioning of the devices to the satisfaction of the user.				
10	Warranty				
10.1	Equipment Minimum of one year after commissioning on all parts.				
10.2	Equipment System	Nil			

Department	CSSD	Room Name/No.	Recycling
Item Code No.	MOH-LEA-7-7	Item Description	Flash Autoclave Table Top

Internal Tank Capacity- 70 to 100 liters Load: 4KW Chamber dimension: Minimum 18" x 24" No. of Drums & Sizes minimum 2 (12" x 15"), Working Pressure: 1.2 kgf/cm sq.g (15 psi - 17 psi) (Can be Upgraded up to 30 PSI), Sterilizing Temperature 121°C to 134°C (150°C - Optional)

Heat Average <=±1°C

Sterilization Time 25 to 30 Minutes

Digital Timer 0 to 99 min

Construction Double / Triple wall & SS GMP construction

Outer Chamber Mild Steel (304 stainless Steel – Optional)

Inner Chamber 304 SS (316 / 316L grades Stainless Steel – Optional)

Insulation Glass Wool

Waste Container Stainless Steel

Door / Lid Foot lifted with safety and interlock device

Door Locking type Radial Type (Wing Nut Optional)

Water Filling & Removal Manual

Safety Features Radial locking, safety valve, low water detector and pressure interlock

Accessories

- PID controller
- Low / High water cut-off device
- Digital alarm
- Temperature chart recorder
- RS 232 / USB PC Connection Port
- Stainless Steel wire mesh carrier
- Dressing drum
- Sterilization indicator tape
- Autoclave bags
- PLC control system
- Extra Silicion gas cutter to be provided along with 2 heating coils

2. Composition

2.1	Flash Autoclave Table Top					
4	Quality standards					
4.1	Manufacturing standards	ISO/ FDA/CE or any other equal and recognized internationally standards				
4.2	Conformity to standards	CE marked or any other equal or recognized international document				
5	Delivery point					
5.1	See Schedule	For inspection and testing				
6	Installation and testing					
	Complete installation and setup of the machine as per manufacturer's instructions					
7	Training					

7.1	User Tr	aining	On site user training	on operation and daily up	keep	
7.2	Mainter	nance training	On-site maintenance training on preventive maintenance			
8	Technic	al documentations				
8.1	User manuals		1 Set			
9	Commis	sioning				
9.1	Testing	and commissioning of	the devices to the satisfaction of the user.			
10	Warranty					
10.1	Equipme	ent	Minimum of one year after commissioning on all parts.			
10.2	Equipme	ent System	Nil			
Department		CSSD	Room Name/No.	Recycling		
Item Code No.		MOH-LEA-7-8	Item Description	Gas Plasma Sterilizer		

- 1. Description of the medical supply unit design type
- 1.1. Should provide simple & fast sterilization of surgical instruments at low temperature using H2O2 Gas Plasma technology for effective removal of H2O2 from sterilized items and to compliment the process.
- 1.2. Should be suitable for sterilization of medical items like rigid endoscopes, lumen & non lumen, metal , non-metal, heat & moisture sensitive instruments
- 1.3. Chamber should have usable volume of around 50 liters
- 1.4. The sterilization temperature inside the chamber should be less than 55°C
- 1.5. Cycle time should be 35 to 60 mins
- 1.7. Should be endorsed by leading instruments and scopes makers like Karl Storz, Olympus, Stryker, Medtronic and Johnson & Johnson
- 1.8. The system should use minimum quantity of sterilant which should be less than 6-8 ml per injection to deliver dry terminal sterilization to ensure safety of Instruments against corrosion.
- 1.9. The unit should be equipped with all the safety features
- 1.10. Sterilizer should have storage of cycle records data.
- 1.11. Should be environment friendly and have no toxic products or harmful residues in the sterilized items in the chamber.
- 1.12. Sterilizer should be approved by CE or equivalent

2. Comp	2. Composition						
2.1	Gas Plasma Sterilizer						
4	Quality standards						
4.1	Manufacturing standards	ISO/ FDA/CE or any other equal and recognized internationally standards			nally		
4.2	Conformity to standards	CE marked or any o	ther equal or recognized int	ernational (document		
5	Delivery point						
5.1	See Schedule	For inspection and t	esting				
6	Installation and testing						
	Complete installation and set	up of the machine as	per manufacturer's instructi	ons			
7	Training						
7.1	User Training	On site user training on operation and daily up keep					
7.2	Maintenance training	On-site maintenance training on preventive maintenance					
8	Technical documentations						
8.1	User manuals	1 Set					
9	Commissioning						
9.1	Testing and commissioning of the devices to the satisfaction of the user.						
10	Warranty	•					
10.1	Equipment	Minimum of one ye	ar after commissioning on a	ll parts.			
10.2	Equipment System	Nil					

Department	CSSD	Room Name/No.	Waste Collection & Destruction		
Item Code	MOH-LEA-7-9	Item	Incinerator 100 Kg		
No.		Description			
1. General Des	cription				
100:					
Burn Rate (KG/HR): 90~120					
Gasification Furnace (Primary Chamber):					

Diameter: 1,732mm Height: 1,680mm

Combustion Furnace (Secondary Chamber):

Diameter: 1,087mm Height: 3,387mm Capacity of Fan (kW): F.D FAN: 3.4kW

EJECTOR FAN: Not specified Capacity of Burner (kW): Ignition Burner: 0.15kW Auxiliary Burner: 0.4kW

Ignition	n Burner: 0.15kW						
Auxiliary	ry Burner: 0.4kW						
2. Comp	omposition						
2.1	Incinerator 100 Kg						
4	Quality standards						
4.1	Manufacturing standards	ISO/ FDA/CE or any other equal and recognized internationally standards					
4.2	Conformity to standards	CE marked or any of	other equal or recognized i	international	document		
5	Delivery point						
5.1	See Schedule For inspection and testing						
6	Installation and testing						
	Complete installation and set	up of the machine as	per manufacturer's instru	ctions			
7	Training						
7.1	User Training	On site user training	g on operation and daily u	p keep			
7.2	Maintenance training	On-site maintenanc	e training on preventive m	naintenance			
8	Technical documentations						
8.1	User manuals	1 Set					
9	Commissioning						
9.1	Testing and commissioning o	f the devices to the	satisfaction of the user.	•	_		
10	Warranty						
10.1	Equipment	Minimum of one ye	ear after commissioning on	all parts.			
10.2	Equipment System Nil						

Department	CSSD	Room	Waste Collection & Destruction
		Name/No.	
Item Code	MOH-LEA-7-10	Item	Incinerator 150 Kg
No.		Description	

1. General Description

150:

Burn Rate (KG/HR): 140~160

Gasification Furnace (Primary Chamber):

Diameter: 1,922mm Height: 1,923mm

Combustion Furnace (Secondary Chamber):

Diameter: 1,262mm
Height: 3,412mm
Capacity of Fan (kW):
F.D FAN: 11kW
EJECTOR FAN: 11kW
Capacity of Burner (kW):
Ignition Burner: 0.15kW
Auxiliary Burner: 0.4kW
2. Composition

2.1	Incinerator 150 Kg			
4	Quality standards			
4.1	Manufacturing standards	ISO/ FDA/CE or any other equal and recognized internationally standards		
4.2	Conformity to standards	CE marked or any other equal or recognized international document		
5	Delivery point			
5.1	See Schedule	For inspection and testing		
6	Installation and testing			
	Complete installation and setup of the machine as per manufacturer's instructions			
7	Training			
7.1	User Training	On site user training on operation and daily up keep		
7.2	Maintenance training	On-site maintenance training on preventive maintenance		
8	Technical documentations			
8.1	User manuals	1 Set		
9	Commissioning			
9.1	Testing and commissioning of the devices to the satisfaction of the user.			
10	Warranty			
10.1	Equipment Minimum of one year after commissioning on all parts.			
10.2	Equipment System	Nil		

Departmo	ent	CSSD	Room Name/No.	Waste Collection & Des	truction		
Item Cod	le	MOH-LEA-7-11	Item	Incinerator 200 Kg			
No.			Description	3			
1. Genera	al Desc	ription					
200:		•					
Burn Rate	(KG/HR): 190~210					
Gasification	n Furna	, ce (Primary Chamber)	:				
Diameter:	1,952m	ım `´´					
Height: 2,3	360mm						
	ustion Furnace (Secondary Chamber):						
	neter: 1,407mm						
Height: 3,4							
	pacity of Fan (kW):						
	D FAN: 15kW						
	CTOR FAN: Not specified						
	acity of Burner (kW):						
_	ion Burner: 0.15kW						
	Auxiliary Burner: 0.4kW						
2. Compos		.to:: 200 l/a		Г			
2.1	Incinera	itor 200 Kg					
4	Ou alita	ata u da uda					
		standards cturing standards	ICO/ EDA/CE or any	other equal and recognized	intornation	a a llv	
4.1	Mariura	cturing Standards	standards	other equal and recognized	IIILEITIALIOI	ially	
4.2	Conform	nity to standards		ther equal or recognized int	ornational	document	
	Delivery		CL marked or any o	ther equal or recognized inc	erriational (document	
	See Sch	•	For inspection and t	restina			
		ion and testing	Tot inspection and t	esting		l	
			in of the machine as	per manufacturer's instruction	ons		
	Training		ap of the machine as	per manaracearer 3 moeracer	0113		
	User Tra		On site user training	on operation and daily up	keen		
		ance training		training on preventive mai			
		al documentations					
	User ma		1 Set				
	Commiss					•	
	Testing and commissioning of the devices to the satisfaction of the user.						
	Warranty						
	Equipme		Minimum of one year	ar after commissioning on al	l parts.		
		ent System	Nil				
•	•	•	<i>D</i> 0		-	-	

Departr	nent	CSSD	Room	Waste Collection & Des	truction		
	_		Name/No.				
Item Co	de	MOH-LEA-7-13	Item	Incinerator 25 Kg			
No.			Description				
1. Gene	ral Desc	ription					
25:							
		(a): 20~30					
		ice (Primary Chamber)	:				
Diameter							
	.,364mm on Furnace (Secondary Chamber):						
Diameter			er):				
Height: 1							
_	•						
F.D FAN:	y of Fan (kW):						
	DR FAN: 2.3kW						
Capacity							
	Burner: 0.15kW						
_	ry Burner: 0.15kW						
2. Compo							
2.1		ator 25 Kg					
					ı		
4	Quality	standards					
4.1		cturing standards		other equal and recognized	internation	nally	
			standards				
4.2		mity to standards	CE marked or any o	ther equal or recognized int	ernational o	document	
5	Delivery					1	
5.1	See Sch		For inspection and t	esting			
6		tion and testing					
			up of the machine as	per manufacturer's instruction	ons		
7	Training						
7.1	User Tr			on operation and daily up			
7.2		nance training	On-site maintenance	training on preventive main	ntenance		
8	Technical documentations						
8.1	User m		1 Set				
9	Commis						
9.1		and commissioning of	the devices to the s	atisfaction of the user.			
10	Warran	,					
10.1	Equipme			ar after commissioning on al	l parts.		
10.2	Equipme	ent System	Nil				

Department	CSSD	Room	Waste Collection & Destruction
		Name/No.	
Item Code	MOH-LEA-7-14	Item	Incinerator 50 Kg
No.		Description	
4. Constalling that the			

50:

Burn Rate (KG/HR): 40~60

Gasification Furnace (Primary Chamber):

Diameter: 1,300mm Height: 1,652mm

Combustion Furnace (Secondary Chamber):

Diameter: 1,016mm Height: 2,160mm Capacity of Fan (kW): F.D FAN: 2.3kW EJECTOR FAN: 3.4kW

Capacity	of Burner (kW):						
Ignition	Ignition Burner: 0.15kW						
Auxiliary	Burner: 0.25kW						
2. Compo	osition						
2.1	Incinerator 50 Kg						
4	Quality standards						
4.1	Manufacturing standards	ISO/ FDA/CE or any other equal and recognized internationally standards					
4.2	Conformity to standards	CE marked or any other equal or recognized international document					
5	Delivery point						
5.1	See Schedule	For inspection and testing					
6	Installation and testing						
	Complete installation and set	up of the machine as per manufacturer's instructions					
7	Training						
7.1	User Training	On site user training on operation and daily up keep					
7.2	Maintenance training	On-site maintenance training on preventive maintenance					
8	Technical documentations						
8.1	User manuals	1 Set					
9	Commissioning						
9.1	Testing and commissioning of the devices to the satisfaction of the user.						
10	Warranty						
10.1	Equipment	Minimum of one year after commissioning on all parts.					
10.2	Equipment System	Nil					

Departm	ent	CSSD	Room	Recycling		
			Name/No.			
Item Cod	le	MOH-LEA-7-15	Item	Packing Table		
No.			Description			
1. Genera						
		s steel (304-grade is c		nedical equipment)		
		ns: 120cm (length) x				
_		: Adjustable between	75cm to 95cm			
Number of		~· =				
		100cm (length) x 30c	cm (width)			
2. Composition						
2.1	Packing	Table				
	-	standards				
4.1	Manufa	cturing standards	ISO/ FDA/CE or any other equal and recognized internationally			
			standards			
		nity to standards	CE marked or any	other equal or recognized in	ternational	document
	Delivery	•				
· · · ·	See Sch	nedule	For inspection and	testing		
		tion and testing				
	Comple	te installation and set	up of the machine a	s per manufacturer's instruct	tions	
	Training	•				
7.1	User Tr	aining	On site user training	ng on operation and daily up	keep	
7.2	Mainter	nance training	On-site maintenand	ce training on preventive ma	intenance	
8	Technic	al documentations				
8.1	User m	anuals	1 Set			
	Commis	sioning				
9.1	Testing and commissioning of the devices to the satisfaction of the user.					
10	Warranty					
10.1	Equipm	ent	Minimum of one y	ear after commissioning on a	all parts.	
		ent System	Nil			

Departn	nent	CSSD	Room Name/No.	Recycling		
Item Co	de	MOH-LEA-7-16	Item	Pressure Steam Gun/ V	Vater For	Cart
No.			Description	Washing		
1. Genei	ral Desc	ription	-			
Steam Pr	essure	2000 PSI 140 Bar				
Water Vo		2.0 GPM 7.5 Lt/m				
		ge Cold to 330 F Co	ld to 166 C			
		e (bar) 8.0				
		ume (I) 5.0				
Max. fillin						
		imption (W) 3120				
		re in the tank (°C) max				
	am temperature at the nozzle (°C) max. 160					
	nensions W/D/H (mm) 285 / 350 / 520					
2. Compo		6. 6. (111.)			T	1
2.1		e Steam Gun/ Water				
	For Car	t Washing				
4	Ouglitur.	ata a da uda				
4.1		standards cturing standards	ICO/ EDA/CE or any	other equal and recognized	intornation	a llv
		5	standards			·
4.2		mity to standards	CE marked or any o	ther equal or recognized int	ernational o	document
5	Delivery	/ point				
5.1	See Sch	nedule	For inspection and t	esting		
6	Installa	tion and testing				
			up of the machine as	per manufacturer's instruction	ons	
7	Training					
7.1	User Tr	aining		on operation and daily up		
7.2		nance training	On-site maintenance	e training on preventive mai	ntenance	
8	Technic	al documentations				
8.1	User m	anuals	1 Set			
9	Commis					
9.1	Testing and commissioning of the devices to the satisfaction of the user.					
10	Warranty					
10.1	Equipm	ent	Minimum of one yea	ar after commissioning on al	l parts.	
10.2	Equipm	ent System	Nil			

Department	CSSD	Room Name/No.	Recycling
Item Code	MOH-LEA-7-17	Item	Small Autoclave 40 Liter Tta
No.		Description	

Combine compact design with high performance, reliability and safety

Intelligent design for your professional choice

Microprocessor control system provides nine fully automatic programs, including add water, sterilization and dry

Eight pre-installed sterilization cycles

Two separate water-level check mechanisms: water tank level and chamber water level

Auto dry function

Pressure door auto-lock device

Chamber protected by pressure switch and steam pressure safety valve

Vacuum/Pressure Release button cuts off the power supply, exhausts the chamber of pressure, and releases the chamber vacuum simultaneously

Indicator lights:

DOOR OPEN - Door has not been closed completely; all functions stop

LOW WATER - Water level is too low

COMPLETE - Full cycle has run properly and is complete

2. Composition

2.1	Small Autoclave 40 Liter Tta		

4	Quality standards					
4.1	Manufacturing standards	ISO/ FDA/CE or any other equal and recognized internationally standards				
4.2	Conformity to standards	CE marked or any other equal or recognized international document				
5	Delivery point					
5.1	See Schedule	For inspection and testing				
6	Installation and testing					
	Complete installation and setup of the machine as per manufacturer's instructions					
7	Training					
7.1	User Training	On site user training on operation and daily up keep				
7.2	Maintenance training	On-site maintenance training on preventive maintenance				
8	Technical documentations					
8.1	User manuals	1 Set				
9	Commissioning					
9.1	Testing and commissioning of the devices to the satisfaction of the user.					
10	Warranty					
10.1	Equipment	Minimum of one year after commissioning on all parts.				
10.2	Equipment System	Nil				

Departm	ent	CSSD	Room	Recycling			
Item Co	de	MOH-LEA-7-18	Name/No. Item	Storage Cabinet			
No.			Description	Jeorage casmer			
1. Gener	al Desc	ription	•				
Stainless	steel nar	row double door cupt	ooard with 1 fixed and	d 4 adjustable shelves 1000	x 680 x 210	00hmm	
393/8" x	3/8" x 263/4" x 8211/16						
2. Compos	sition						
2.1	Storage	Cabinet					
4	Quality	standards					
4.1	Manufacturing standards			ISO/ FDA/CE or any other equal and recognized internationally			
			standards				
4.2		nity to standards	CE marked or any o	ther equal or recognized int	ernational c	locument	
5	Delivery		1				
5.1	See Sch		For inspection and t	esting			
6		ion and testing					
			up of the machine as	per manufacturer's instructi	ons		
7	Training		1				
7.1	User Tr			on operation and daily up			
7.2		ance training	On-site maintenance	e training on preventive mai	ntenance		
8		al documentations	1				
8.1	User ma		1 Set				
9	Commis						
9.1	Testing and commissioning of the devices to the satisfaction of the user.						
10	Warranty						
10.1	Equipme			ar after commissioning on a	II parts.		
10.2	Equipme	ent System	Nil				

Department	CSSD	Room Name/No.	Recycling
Item Code No.	MOH-LEA-7-19	Item Description	Surgical Instruments Sets

Amputation Set, Basic Laparatomy Set, Basic Prostectomy Set, Thyroidtectomy Set, K-Nail Set - As Per Spec, Paedtric General Set, Caesarian Section Set, E.U.A Set, General Hystrectomy Set, V.V.F Set - As Per Specs., Bladder Set, Catheterization Set, Cut Down Adult Set, Incision & Execisional Biopsy Set, Incision Tray - As Per Specs., Stitch Removing Set, Cholecystectomy Set, Craniotomy Set, General Thoracic Set, Urethroplasty Set, ENT General Set, Foreign Body Ear Nose Set, Myringotomy Set, Tonsillectomy Set, Tracheatomy Set, Vericose Vein Stripper Set, Cataract Set with IOL Implantation Set, Glaucoma Set, Gromet Set ENT,

Laryngos	Laryngoscope Adult & Paediatric, Laryngoscope with Blades For Neonates , Magil Forceps Adult & Paediatric						
2. Comp	2. Composition						
2.1	Surgical Instruments Sets						
4	Quality standards						
4.1	Manufacturing standards ISO/ FDA/CE or any other equal and recognized internationally standards						
4.2	Conformity to standards	CE marked or any other equal or recognized international document					
5	Delivery point	Delivery point					
5.1	See Schedule For inspection and testing						
6	Installation and testing	Installation and testing					
	Complete installation and set	up of the machine as per manufacturer's instructions					
7	Training						
7.1	User Training	On site user training on operation and daily up keep					
7.2	Maintenance training	On-site maintenance training on preventive maintenance					
8	Technical documentations						
8.1	User manuals	1 Set					
9	Commissioning						
9.1	Testing and commissioning of the devices to the satisfaction of the user.						
10	Warranty						
10.1	Equipment	Minimum of one year after commissioning on all parts.					
10.2	Equipment System	Nil					

Departr	nent	CSSD	Room Name/No.	Recycling		
Item Co	de	MOH-LEA-7-20	Item Description	Trolly Cabinet		
1. Gene	ral Desc	ription				
• SS 304						
	• Contoured traumatic finish					
	100mm wheels					
_		SS Racks				
	Pull / Push SS Handles					
	SIZE: 1240 X 610 X 1370mm					
2. Compo		· · · ·			1	
2.1	Trolly C	abinet				
	0 !!!					
4		standards	TOO / FD A /OF			
4.1	Manufa	cturing standards	standards	other equal and recognized	Internation	nally
4.2	Conforr	nity to standards	CE marked or any o	ther equal or recognized int	ernational (document
5	Delivery	/ point				
5.1	See Sch	nedule	For inspection and t	esting		
6		tion and testing				
	Comple	te installation and seti	up of the machine as	per manufacturer's instruction	ons	
7	Training]				
7.1	User Tr	aining	On site user training	on operation and daily up	keep	
7.2	Mainter	nance training	On-site maintenance	training on preventive mail	ntenance	
8	Technic	al documentations				
8.1	User m	anuals	1 Set			
9	Commis	sioning				-
9.1	Testing and commissioning of the devices to the satisfaction of the user.					
10	Warranty					
10.1	Equipm		Minimum of one year	ar after commissioning on a	ll parts.	
10.2	Equipm	ent System	Nil			

Departme	ent CSSD	Room Name/No.	Recycling		
Item Code	MOH-LEA-7-21	Item	Under Counter Washer 150 Liter		
No.		Description			
1. Genera	l Description				
Touch pane	el with color graphic display	with a total of 40 pro	ograms: preset and programmable procedures		
Advanced t	eatures				
Air drying p	orefilter + HEPA H14 filter. 3	3 heating elements. B	Built-in steam condenser. Integrated water softener		
(optional).					
Dosing pun	nps with flowmeter				
	d alkaline detergents				
	al pumps optional)				
Composi					
2.1 l	Jnder Counter Washer 150				
	iter				
	Quality standards				
4.1	Manufacturing standards	ISO/ FDA/CE or an standards	y other equal and recognized internationally		
4.2	Conformity to standards	CE marked or any	other equal or recognized international document		
5 I	Delivery point				
5.1	See Schedule	For inspection and	testing		
	nstallation and testing				
		tup of the machine as	s per manufacturer's instructions		
7	[raining				
	Jser Training		g on operation and daily up keep		
7.2	Maintenance training	On-site maintenand	ce training on preventive maintenance		
-	Technical documentations				
	Jser manuals	1 Set			
	Commissioning				
	Testing and commissioning	of the devices to the	satisfaction of the user.		
	Varranty				
10 1	Equipment Minimum of one year after commissioning on all parts				

10.1

10.2

Equipment System

Nil

Departme	nt	CSSD	Room Name/No.	Recycling		
Item Code)	MOH-LEA-7-22	Item	Unpacking Table		
No.			Description			
1. General	Desci	ription				
Stainless ste	eel 304	construction · Safety	folds to all edges · S	ingle shelf with embedded LED examination light ·		
2 drawers ·	Size:1	000*600*850mm.				
Compositi	ion					
2.1 U	npackii	ng Table				
-		standards				
4.1 M	lanufac	cturing standards	ISO/ FDA/CE or any other equal and recognized internationally			
	stand a rds					
		nity to standards	CE marked or any o	ther equal or recognized international document		
	elivery	•				
	ee Sch		For inspection and t	esting		
		ion and testing				
			up of the machine as	per manufacturer's instructions		
	raining					
	ser Tra	•		on operation and daily up keep		
		ance training	On-site maintenance	training on preventive maintenance		
-		al documentations	1.0-4			
	ser ma		1 Set			
	ommiss	_	Silver de Constantino	H.C. H C. H		
		and commissioning of	the devices to the sa	atistaction of the user.		
-	/arrant	7	Mistro and Communication and the communication of t			
	quipme		,	ar after commissioning on all parts.		
10.2 E	quipme	nt System	Nil			

Minimum of one year after commissioning on all parts.

Department	CSSD	Room Name/No.	Recycling
Item Code No.	MOH-LEA-7-23	Item Description	Warmining Cabinet

Control System PLC processor, Electronic card

Usage Full Automatic / button and touch screen (Monochrome screen optional)

Screen Type Color TFT, Touch LCD

Screen Dimensions 4,3" and/or 7" (Screens in a different size may be installed on purpose.)

Keyboard Touch

Printer 40 characters/lines, integrated thermal printer (optional)

Communication RS485 Port/USB (Ethernet Optional)

Warning System Visual, auditory and written message warning

Data Storage 30-day data

Process Touch screen Monitoring/Tracking Mobility Easy direction on 4 rotating wheels

Door Single door/Double door, heat insulated, non-vapor producing and non-moisture producing, tempered

glass, magnetic sealed

Door Security System Magnetic lock, open via the encoded/unencoded touchscreen

Fan Material Provides homogenous air. Fan protective grating is made from non-flammable Both partitions can be set at different temperatures for single and double doors models. According to this;

Operation Temperature Range 1. In IV Solution Mode: 32 OC - 44 OC (Only used for the upper cabinet.)

2. In Irrigation/Blanket Mode: 32 OC – 71,1 OC (Used both for the upper and the lower cabinet.)

3. BLT Mode: 32 OC – 94 OC (Used both for the upper and the lower cabinet.)

(Note: The upper cabinet is set in IV Solution Mode by default.)

Lighting Resistant to high temperatures, LED type, automatically on upon door opening, turning on the light via the touchscreen when the door is closed

Wheel System Four wheels, two of which are with brakeage

Alarm System Both visual and auditory alarming Shelves Mobile, AISI 304 quality stainless steel drawers

Material All parts of the device, both inner and outer, are made from AISI 304 quality stainless steel

Insulation 40 mm thick polyurethane material

Power Value 220 V/50 Hz

2. Composition

2.1 Warmining Cabinet

4	Quality standards	
4.1	Manufacturing standards	ISO/ FDA/CE or any other equal and recognized internationally
		standards
4.2	Conformity to standards	CE marked or any other equal or recognized international document
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and se	tup of the machine as per manufacturer's instructions
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Set
9	Commissioning	
9.1	Testing and commissioning of	of the devices to the satisfaction of the user.
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.
10.2	Equipment System	Nil

Department	CSSD	Room Name/No.	Recycling
Item Code No.	MOH-LEA-7-24	Item Description	Washer For Endoscopy

Department CSSD

Large Capacity Each cycle has the capacity to wash and disinfect either two flexible endoscopes or up to six non-channelled naso-endoscopes in two separate baskets. Control Screen The full-colour touch screen is large and easy to read from a distance. Swift and Effective Processing Inside and Out The rotating spray arm for washing and disinfecting is able to reach into the far corners of the chamber for both the top and bottom baskets. Rinse Water Control A pure water filter is included as standard in the Reliance PTX Processor. Full Traceability The Reliance PTX Processor provides comprehensive cycle recording, monitoring and verification records using the inbuilt systems of the unit. Full-Cycle Monitoring Each cycle is independently monitored to ensure compliance of key cycle parameters of time, temperature, quantity of cleaner and disinfectant, quantity of water, flow through channels and conductivity (optional). Full Scope Characterisation The flow characteristics of each endoscope are entered into the Reliance PTX Processor control by a trained STERIS technician, and linked to that scope ID. Isolated Chemical Chamber The Reliance PTX™ Processor has been desiair gned to use STERIS chemicals and to hold these chemistries in an easy-to-reach front opening drawer.

STERIS	chemicals and to hold these c	hemistries in an easy-to-reach front opening drawer.
2. Com	position	
2.1	Washer For Endoscopy	
4	Over the control of the control	
4	Quality standards	700 / FD 1 / 0 F
4.1	Manufacturing standards	ISO/ FDA/CE or any other equal and recognized internationally standards
4.2	Conformity to standards	CE marked or any other equal or recognized international document
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and se	etup of the machine as per manufacturer's instructions
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Set
9	Commissioning	
9.1	Testing and commissioning	of the devices to the satisfaction of the user.
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.
10.2	Equipment System	Nil

Departm		COOD	Name/No.	recey carried	
Item Coo No.	le	MOH-LEA-7-25	Item Description	Washer Sink With All Acc'	
1. Genera	al Desc	ription			
stainless s	steel and	l seamlessly integrated	l into worktops, sinks	are in large or small sizes, single or double	
		installation on the left,	middle or right hand	side of worktops into cabinets for sinks	
underneat					
2. Compos					
2.1	Washer	Sink With All Acc'			
	0 -11	.111.			
4	Quality standards				
4.1	Manufa	cturing standards	ISO/ FDA/CE or any other equal and recognized internationally standards		
4.2	Conforn	nity to standards	CE marked or any other equal or recognized international document		
5	Delivery	point point			
5.1	See Sch	chedule For inspection and testing			
6	Installat	tion and testing			
	Complete installation and setup of the machine as per manufacturer's instructions				
7	Training		•		
7.1	User Tra	aining	On site user training	on operation and daily up keep	
7.2	Mainten	ance training	On-site maintenance	training on preventive maintenance	
8	Technic	al documentations			

Recycling

Room

8.1	User manuals	1 Set	
9	Commissioning		
9.1	Testing and commissioning	of the devices to the satisfaction of the user.	
10	Warranty		
10.1	Equipment	Minimum of one year after commissioning on all parts.	
10.2	Equipment System	Nil	

Departn	nent	CSSD	Room Name/No.	Recycling	
Item Co	de	MOH-LEA-7-26	Item	Washing Machine	
No.			Description		
1. Gener	1. General Description				
•	Drum capacity: 518liters				
	Capacity				
	•	cy controlled: standard			
		cabinet stainless steel	AISI 304		
	Heating				
		ower 54Kw			
		upply 3phase, 380-480	V/50Hz		
2. Compo		. M. d			
2.1	wasnin	g Machine			
4	Quality	standards			
4.1		cturing standards	ISO/ FDA/CE or any	other equal and recognized internationally	
		3	standards	,	
4.2	Conforr	nity to standards	CE marked or any other equal or recognized international document		
5	Delivery	point point			
5.1	See Sch		For inspection and t	esting	
6		tion and testing			
	Complete installation and setup of the machine as per manufacturer's instructions		per manufacturer's instructions		
7	Training				
7.1	User Tr	_		on operation and daily up keep	
7.2		nance training	On-site maintenance training on preventive maintenance		
8		al documentations			
8.1	User m	anuals	1 Set		
9		Commissioning			
9.1		Testing and commissioning of the devices to the satisfaction of the user.			
10	Warran				
10.1	Equipme		•	ar after commissioning on all parts.	
10.2	Equipme	ent System	Nil		

Department	CSSD	Room	Recycling	
		Name/No.		
Item Code	MOH-LEA-7-27	Item	Water Jet System	
No.		Description		
1. General Description				
1.1. Complete stainless steel CSSD instrument sluicing table with hand water jet table form machine				
pressed made of acid-proof stainless steel.S.S.304; 1.5mm thickness laser cut with hot and cold water faucets.				
1.2. Should have sturdy tubular framework				
1.3. Should h	ave twin bay sink with	drain out water con	nection.	

- 1.4. Adjustable stumps.
- 1.5. Size should be 1200mm x w 600mm x h 850mm
- 2. Composition
- 2.1 Water Jet System
- 4 Quality standards
- 4.1 Manufacturing standards ISO/ FDA/CE or any other equal and recognized internationally
 - standards
- 4.2 Conformity to standards CE marked or any other equal or recognized international document

5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and set	up of the machine as per manufacturer's instructions
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Set
9	Commissioning	
9.1	Testing and commissioning of	f the devices to the satisfaction of the user.
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.
10.2	Equipment System	Nil

Departn	nent	CSSD	Room Name/No.	Recycling
Item Co No.	de	MOH-LEA-7-28	Item Description	Working Station
1. Gene	ral Desc	ription		
SS 304 co	onstructi	on		
• With tra	ansparer	it illuminating section		
 Magnify 	ing lens	optional		
• Size: 22	285 X 81	5 X 950mm		
2. Compo	sition			
2.1	Working	g Station		
4	. ,	standards		
4.1	Manufa	cturing standards	ISO/ FDA/CE or any other equal and recognized internationally	
			standards	
4.2		nity to standards	CE marked or any other equal or recognized international document	
5	Delivery	•		
5.1	See Sch		For inspection and t	esting
6		tion and testing		
			up of the machine as	per manufacturer's instructions
7	Training			
7.1	User Tr		_	on operation and daily up keep
7.2		nance training	On-site maintenance	training on preventive maintenance
8		al documentations		
8.1	User manuals		1 Set	
9	Commissioning			
9.1	Testing and commissioning of		the devices to the sa	atisfaction of the user.
10	Warranty			
10.1	Equipm		Minimum of one year	ar after commissioning on all parts.
10.2	Equipm	ent System	Nil	

Department	CSSD	Room Name/No.	Recycling
Item Code	MOH-LEA-7-29	Item	WORKING TABLE
No.		Description	

Complete stainless steel CSSD sterile packing table form machine pressed made of acid-proof stainless steel; grade - S.S.304 grade, 1.5mm thickness laser cut Sturdy tubular framework Lightened tabletop Adjustable stumps

Size: Approx. 1400mm x w 900mm x h 850mm Customized according to locations

2. Composition

2.1 WORKING TABLE

4	Quality standards	
4.1	Manufacturing standards	ISO/ FDA/CE or any other equal and recognized internationally
		standards
4.2	Conformity to standards	CE marked or any other equal or recognized international document
5	Delivery point	
5.1	See Schedule	For inspection and testing
6	Installation and testing	
	Complete installation and se	tup of the machine as per manufacturer's instructions
7	Training	
7.1	User Training	On site user training on operation and daily up keep
7.2	Maintenance training	On-site maintenance training on preventive maintenance
8	Technical documentations	
8.1	User manuals	1 Set
9	Commissioning	
9.1	Testing and commissioning	of the devices to the satisfaction of the user.
10	Warranty	
10.1	Equipment	Minimum of one year after commissioning on all parts.
10.2	Equipment System	Nil

LOT 3 IPD, LOT 2 ICU & LOT 5 OT

Medical Oxygen Plant with Pipeline (MGPS) **MoH-LEA-2-16** Set-up Under Lot 2 ICU is removed from ICU and added Under Lot 3 IPD the new Technical Specification Code for Medical Oxygen Plant with Pipeline (MGPS) would be **MOH-LEA-3-24**. Bidders need not include **MoH-LEA-2-16** while bidding for LOT 2. The specifications for MOH-LEA-3-24 would be the same as the Specification mentioned under MoH-LEA-2-16 in the tender document.

Medical Gases under FFS should be supplied under Lot 2 ICU and Lot 5 OT as per the updated Procedure/Service Code mentioned below, the bidders who are bidding for Lot 2 ICU and Lot 5 OT under Lease should include these LOT(S) under FFS for medical gases for the procuring entity to consider it complete.

The Medical gases supplied under the below mentioned LOT(S) should be of at least 99% purity and with a maximum pressure variance of \pm 0 as it would be for the ICU and OT.

Amendments to Appendix E – List of Services to be provided under FFS for LOT 5

		Sub-		Procedure/Service	LOT
SL No.	Category	Category	Procedure/ Service Name	Code	No.
1	ICU	Medical Gases	Oxygen (O2) 8.5 m3 (170 bars)	MoH-SER-FFS-2-1	2
2	ICU	Medical Gases	Oxygen (O2) 1.36 m3 (136 bars)	MoH-SER-FFS-2-2	2
3	ICU	Medical Gases	Medical Air 8.0 m3 (160 bars)	MoH-SER-FFS-2-3	2
		Sub-		Procedure/Service	LOT
SL No.	Category	Category	Procedure/ Service Name	Code	No.
1	OT	Medical Gases	Oxygen (O2) 8.5 m3 (170 bars)	MoH-SER-FFS-5-1	5
2	OT	Medical Gases	Oxygen (O2) 1.36 m3 (136 bars)	MoH-SER-FFS-5-2	5
3	OT	Medical Gases	Medical Air 8.0 m3 (160 bars)	MoH-SER-FFS-5-3	5

Departmen t	Imaging	Room Name/No.	Imaging
Item Code No.	MOH-FA-3-6	Item Description	Digital Mobile X -Ray Unit

Mobile X-ray unit, digital type, on castors and having a rotating anode standard tube. It should be easy to maneuver and control and capable of undertaking bedside and theatre radiography. Should also incorporate a cassette storage chamber with a minimum capacity of 2 Flat Panel detectors

detec	ctors		
2. Coi	mposition		
2.1	X-Ray Generator		
2.2	X-Ray Tube		
2.3	Digital cassettes		
3. Per	rformance Specification	S	
3.1	X-Ray Generator		
3.1.1	Туре	Microprocessor controlled, Maximum power rating 30 KW	
	Frequency	40KHz	
3.1.2	Anatomic programm	es Available	
3.1.3	DAP	To be provided	
3.1.4	mAs range	0.2mAs to 200mAs at 90 KV and 0.2 mAs to 50 mAs at 125KV	
3.1.5	Control Panel	Touch Screen type with 19" LED/ LCD Digital display of	
		parameters.	
3.2	X-ray tube		
3.2.1	Туре	Rotating anode type	
3.2.2	Tube voltage range	40 to 125 kV.	
3.2.3	Tube current	Not less than 300mA	
3.2.4		0.6/1.5 duo focal spot	
3.2.5		Min 200KHU	
3.2.6	Collimator	Manual operation without screen with DAP assembly interface	
3.3	Detector	Flat panel, wireless 17 X17 HD static type	
3.4		APR photography	
3.4.1	, ,	Minimum WIN 10 professional 64 bit	
3.5.	Connectivity	DICOM 3.0 compatible with USB port, Wireless connection	
		compatibility, Ethernet Port	
3.6	Physical	Mobile on castors Ø 120 mm with brakes	
	characteristics		
		Electric assisted with anti-collision function	
5	Operating environmen		
5.1	Power	240V, a/c 50 Hz, Single phase, with PE conductor	
	Requirements		

5.2	Ambient	10° C to 40° C	
	temperature		
5.3	Relative humidity	40% to 90%	
6	Accessories		
6.1	External Hard Disk, US	SB 3.0, 1000GB	
7	Spare parts		
	Manufacturer's reco	mmended service kit for one year	
9	Quality standards		
9.2	Manufacturing	IEC 60601-1, ISO 9001, ISO 13485or any other internationally	
	standards	recognized standards	
	Conformity to	CE marked or any other internationally recognized documents	
	standards		
11	Delivery point		
11.1	See Hospital	For delivery, inspection and testing,	
	Schedule.	installation and commissioning	
12	Pre installation		
	requirements		
	Nil		
13	Installation and		
	testing		
	Complete installation	and set-up of the Mobile X-Ray Machine as per manufacturer's	
	instructions		
14	Training		
14.1	User Training	On site user training on operation and daily up keep for 3 weeks	
14.2	Maintenance	On site maintenance training on preventive maintenance	
	training		
15	Technical		
	documentations		
15.1	User manuals	2 Sets	
15.2	Service Manual	1 Set	
15.3	Drawings	Nil	
16	Commissioning		
16.1			
	the satisfaction of the	ne	
17	user.		
17	Warranty	Minimum of and your often accoming in its in a sure of the sure of	
17.1	Equipment Cyatam	Minimum of one year after commissioning on all parts.	
17.2	Equipment System	Nil	
18.	Maintenance		
	contract		

18.1	Capacity to provide maintenance	Vendor/manufacturer shall have adequate
	and repair service	facilities, spare parts, qualified and skilled
		technical staff to offer
		comprehensive maintenance contract for 10 years

AIR COMPRESSOR

- 1) Superior performance State-of-the-art compression element coupled with a maintenance-free gearbox.
- 2) 100% continuous duty cycle.
- 3) Motor and drive train are greased for life to avoid improper re-greasing.
- 4) Reduced electrical cubicle temperature doubles electrical component lifetime.
- 5) Integrated dryer with heat exchanger and integrated water separator for dry, quality air.
- 6) Best-in-class low noise levels.
- 7) Supreme energy efficiency IE4 efficiency rated motor.
- 8) Free Air Delivery increased by 6-10%.
- 9) Power consumption reduced by 3-8%.
- 10)Quick installation & maintenance Delivered plug & play.
- 11) Easy transportation.
- 12) Main components are easily accessible.
- 13) State-of-the-art monitoring & control
- 14) High-tech Electronic ® Touch controller with high-definition color display, easy to use and built to perform in the toughest conditions.
- 15) Week timer, remote monitoring and maintenance scheduling.
- 16) Built-in phase sequence relay for motor control and protection.
- 17)Standard SMARTLINK remote monitoring to maximize air system performance and energy savings.
- 18)Optional multiple compressor control.

AIR TANK

- Air storage tank: 0.6m³, with safety valve,
- drain valve,
- pressure quage
- Air tank capacity 3m³, with safety valve

Sterilization Basket

- 1) For entire sterilization required canters
- 2) Stainless steel wire
- 3) Flexible production in different designs and dimensions
- 4) Stackable

- 5) Dimension (WxLxH): 600x300x300 mm.
- 6) Dimension (WxLxH): 600x300x200 mm.

Booster Pump

- Voltage 240 (v)
- Power 0.75 (kw)
- Current 5.8 (A)
- Inches (") 1"
- Inches 1"
- Dimensions
 - o 535 x 600 x 225 (mm) L x h x w
- Weight 20Kg

Cart Cabinet For Storage and Execrating Sets

- 1) Required for storage of Sterile Instruments
- 2) Must be made of Grade 304 Stainless Steel
- 3) Four swivel castors with two brakes
- 4) Must have Lockable Stainless Steel doors sealed with gaskets
- 5) Must have at least 3 shelves
- 6) Doors swing open up to 270° and give complete access
- 7) Dimensions (WxLxH): 430x900x1800 m

Changeover and Manifold

Manifold Fully automatic Medical Oxygen Gas Manifold complete with two stage regulators, monitoring alarm and hose barb outlet for pipeline connection and corresponding cylinder steel braided pig tail hoses complete with the cylinder holding rack.

Automatic manifold assembly

Wall mounted manifold (8x2)

The manifolds for all the specified gases (and air) shall be as far as possible identical in construction and

the following clauses refer to the assemblies any of the "gases".

Manifold Headers

Each bank of cylinders shall be located beneath a high-pressure manifold header securely mounted

Control Panel

The headers shall carry flexible spiral tail pipes on the underside for connecting to the cylinders and each tail pipe shall incorporate a renewable non-return valve on the

manifold header to allow removal and replacement of the cylinder without interrupting the supply from others in the same bank.

Non-interchangeability of cylinder connections

The screwed connections of the tail pipes to the cylinder valves shall be designed such that cross

connection of the pipe for any one gas cannot be made to any cylinders for the gases, the exception

being oxygen and air which to BS. 341 part 1 are identical.

Testing of Headers.

The manifold and tail pipe assembly shall be capable of withstanding a maximum working gauge

pressure of 136 bar (1980 P.S.I.) and shall be tested to twice this pressure by the manufacturer at his

work and a test certificate supplied.

Attach brochure and/or manual - Should meet any of the following standards;

- ISO 15001:2010
- HTM 02-01
- ISO 7396-01:201

STORAGE CABINET

- 1. Required for storage of Sterile Instruments
- 2. Must be made of Grade 304 Stainless Steel
- 3. Must have Lockable Stainless Steel doors sealed with gaskets
- 4. Must have at least 3 shelves
- 5. Doors swing open up to 270° and give complete access
- 6. Dimensions (WxLxH): 430x900x1800 mm

TROLLEY SPECIFICATIONS

- 1. For entire sterilization required centers,
- 2. Manufactured from 304 grade stainless steel,
- 3. Four castors with two brakes,
- 4. Two shelves, handle for easy movement,
- 5. Custom made production in different sizes and designs,
- 6. Dimensions (WxLxH): 550x860x900 mm

TROLLEY CABINET

- 1) For entire sterilization required places
- 2) Manufactured from 304 grade stainless steel,
- 3) All the edges of the upper and lower plates are convex,
- 4) Corner bumper in all corners, four wheels with two brakes,
- 5) Doors with oval locks with 270° openable double-skinned seal,
- 6) Removable and height adjustable wire rack system and a solid shelf
- 7) Dimensions (WxLxH): 680x1260x1280 m

UNDER COUNTER WASHER

Functional software

- 9 pre-defined & 11 free customizable cycle capacity for various different types of instruments
- Ability to modify cycle parameters to reach specific goals
- Self-diagnosis with animations
- Monitoring all washing parameters in order to ensure real validation

Save & Safe

- HEPA H14 filter for drying and ventilation
- Energy optimization by steam-electric hybrid heating system available
- Air and water warming by condensed steam to save energy
- Optimized pump capacities to reduce consumption

Intelligent design

- Spray arm monitoring which stops cycle in case of an abnormality
- Trolley recognition system to eliminate risk of running improper cycles
- Conductivity probe for optimum washing performance
- T.E.S. (Total Emptiness System) for draining all left over water at pump

Ergonomics

- 4 x 5L can capacity drawer with lock & easy cleaning removable dip tray
- Stainless steel stand for heightening PLUSHER WDC 8 series
- Easy to open manual door or vertical sliding door available in single or passthrough
- Steam condensers to prevent steam coming out from chamber

Shorter Cycle Times JET

- Increased speed in cycle times
- Cycle times reduced up to 50%
- Standard pre-heating tank for hot water connection
- Optional pre-heating tank for demi-water connection

UNPACKING TABLE

- 1. For entire sterilization required centers,
- 2. Manufactured from 304 grade stainless steel,
- 3. Stainless steel adjustable feet,
- 4. Custom made production in different sizes and designs,
- 5. Dimension (WxLxH): 600x1300x850 mm.
- 6. One lockable drawer and half shelf.

WARMING CABINET

Works with 195-230 V/50 Hz mains voltage.

- The outer surface of the device has been produced of galvanized sheet with electrostatic paint
- resistant to rust and the inner surface is produced of chrome nickel sheet.
- Cabinet's door is double coated heat glassed, lockable ad magnetic sealed which allows stocktaking.
- It has 7 wire shelves with plastic cover which can be adjusted according to the user's request.
- The cabinet has over-temperature protection as electronic up to 80 degrees, mechanically up to 90 degrees.
- Equal heat distribution is provided by the reinforced fan system in the cabinet.
- There is a filter in the device to prevent the possibility of an external contamination to the air circulation system.
- A fully automatic defrost system is available to maintain the efficiency of the cupboard cooling evaporator.
- · Cabinet interior lighting is realized with led lighting.
- A user-friendly microprocessor digital control panel is used on the cabinet. This system can store the data for 30 days in the memory and the old records can be followed on the screen.
- There is a USB socket to transfer the cabinet temperature information to the computer when requested. In this way, the 10-year-old temperature records can be transferred to the PC in excel format.
- The thermostat in the cabinet control panel can measure with 0.1-degree accuracy.
- Sensor adjustment can be done via electronic card to match external sensor and cabinet grades.
- The instrument control panel has an accumulator system that is automatically charged. This system allows the digital control panel and/or thermal printer (if there is) continues to function for 24 hours for any power failures.
- When the upper and lower temperature limits are exceeded while the cupboard was working, while the door is open, the appliance gives a visual and audible warning signal when an electrical interruption occurs.

- There are stopped and two fixed wheels on the cabinet that provide easy mobility.
- As per the request of the user, a thermal printer can be installed at the device. The numerical and graphical printout of the data recorded with the thermal printer can be taken.
- All medical devices are guaranteed for 2 years.
- All our products are produced in line with the ISO 9001:2008, TSE service place competence certificates. The device has CE certificates and barcode.

TECHNICAL SPECIFICATIONS		
Two Sections Working Separately	√	
Temperature Range °C	+20/+80 °C	
Set Point °C	+30 °C	
Number of Cabins	2	
Cr-Ni Shelves	$\sqrt{}$	
Digital Microprocessor Control	$\sqrt{}$	
Thermal Printer	Optional	
Alarm (Temperature, Open Door, Electricity)	$\sqrt{}$	
Interior Lighting	$\sqrt{}$	
External Dimensions		
	765 x 820 x 2000	
WxLxH mm		
Internal Dimensions (Up)		
	662 x 700 x 810	
WxLxH mm		
Internal Dimensions (Down)	622 627 400	
M/M/ M mayor	622 x 637 x 400	
WxLxH mm	275	
Gross Volume (Up) L	375	
Gross Volume (Down) L	158	
Net Volume (Up) L	350	
Net Volume (Down) L	140	
Weight Kg	190	
Door Lock	√	
Castors (2 Braked, 2 Regular)	$ \hspace{.06cm}\sqrt{\hspace{.08cm}}$	

Clarifications

1. There are no quantities listed so it is going to be challenging in quoting so we suggest quantities to be issued

As clarified in Addendum No.1 of Tender No. MOH/SDMS/ADM/ONT/00/2023-2024. The scope and nature of Fee-for service and Lease to own are included in page 2-6 of the Addendum. The Quantities cannot be provided as the order will be placed on "As and when required" Basis. The range of estimated quantities for some items are provided as part of addendum No.1.

2. Due to the duration of the project and inflation we request for price variation across the period.

Price variations would be allowed as mentioned in the tender document and addendum Addendum No.1 of Tender No. MOH/SDMS/ADM/ONT/00/2023-2024. published on the Ministry of Health website.