



WHO Equipment's and Instruments List for MOH

Specifications

#	Item	Quantity	Unit Price (USD)	Total Price (USD)
1.	Emergency Light with Battery	11	4,500	49,500
2.	Basic Orthopedic Instruments Set	9	4,500	40,500
3.	Basic Vascular Instruments Set	6	4,000	24,000
4.	Ceiling Operation Light	6	20,000	120,000
5.	Laparotomy Instruments Set	9	3,000	27,000
6.	Anesthesia Machine	2	35,000	70,000
7.	Suture Set	100	150	15,000
8.	Laryngoscope 5 Blades	40	300	12,000
9.	Electro Surgical Unit - Diathermy	3	6,000	18,000
10.	ENT Examination Unit	3	25,000	75,000
11.	Universal T-Handle e Check	25	400	10,000
12.	Mayo Stand Stainless Steel	10	350	3,500
13.	Apron for Radiation X-ray Protection	10	700	7,000
Total				471,500

Item no.1

Emergency Light with Battery

Functional and Technical Specifications:

- Good brand name Manufacturer (USA, European Union, Japan) and should be proven in MOH and has good reputation and high efficiency.
- Light Source LED
- Light Intensity (Lux) @ 0.5m 100,000 Lux \pm 5%
- Light Intensity (Lux) @ 1.0m 50,000 Lux \pm 5%
- Light Intensity Adjustment Range 10 - 100%
- Colour Temperature (Kelvin) 4,500K \pm 500



- Number of LED's (10-12)
- Removable, autoclavable handle
- Emergency Battery box 2 batteries
- Automatic charging system.
- One touch variable intensity
- Average Working Life >40,000 Hours
- Input Supply Rating 100 - 240V AC 50/60 Hz
- Light Field Diameter (D10) @ 0.5m: 150mm @ 1.0m: 240mm,
- spare parts two set of LED
- A strong beam of light with an even intensity across
- the entire area for clearer viewing
- Balanced arm with excellent range of movement
- Infection controlling design. BioProtect on all painted surfaces
- Equipment should have be FDA ,European CE, approved product certificate should submitted
- Warranty 3 years
- Warranty for not less than 10 years for spare parts

Item no.2

Basic Orthopedic Instruments Set

- These tools specifically designed to carry out different actions and to achieve various purposes during surgery or an operation.
- Instruments from well-known brand company .
- From (USA, Europe ,Japan)
- All instruments Made from Stainless Steel .
- Instruments ability to sterilize several times under steam temperature 134° .
- Warranty at Least 7 Years .
- Guaranteed High-Quality Instruments both in Material & Function.
- Instruments provided non sterile .
- Reusable.
- Allowed to be washed by ultrasonic cleaner machine .
- Instruments in sets can be modified according to the customer's requirements.
- Each set should have freely Lubricants oil for instruments . Qty 3.
- Each set should have freely brush for cleaning instruments . Qty 3 .
- Each company must bring a catalog of instruments sets with photos and specifications .



- Companies must abide by the sets contents sent by us in the offer

BASIC ORTHOPEDIC INSTRUMENTS SET		
N	ITEM	Q
1	BASKET, wire, STERILIZING, 685 x 255x 100mm, + lid	1
2	YANKAUER suction tube 28,5cm/11¼" with suction tip Ø 10,0mm (central bore Ø 2,0mm)	1
3	SCALPEL, HANDLE, No 3 (for blades 10/11/15)	1
4	SCALPEL, HANDLE, No 4 (for blades 20)	1
5	SCALPEL, HANDLE, No 3 XL (for blades 10/11/15)	1
6	Metal Caliper for measuring 20cm	1
7	FORCEPS, SPONGE, FOERSTER, 24cm, serrated jaws, straight	3
8	BACKHAUS towel forceps 13,5cm/5¼"	12
9	HOLDER, INSTRUMENTS, BUNT (MAYO), 14 cm	1
10	MAYO scissors straight 14,5cm/5¾" TC	1
11	MAYO scissors curved 14,5cm/5¾" TC	1
12	MAYO scissors curved 17,5cm/6¾" TC	2
13	OPERATION Scissor 5 1/2" Str Sh/bl TC	1
14	METZENBAUM scissors cvd. bl/bl 20cm/8" TC	1
15	Forceps dressing 14,5cm/5¾"	1
16	Forceps dressing 25,0 cm/9¾"	1
17	Forceps tissue 1x2 t. 25,0 cm/9¾"	1
18	Forceps tissue 2x3 t. 14,5 cm/5¾"	1
19	DEBAKEY ,A traumatic , Fcp Str20.5cm , 8 ¼, 2mm	2
20	Russian Tissue Fcp,21cm, 8"	2
21	Halsted Mosquito Fcp STR,12cm, 5"	4
22	Halsted Mosquito Fcp CVD,12cm, 5"	6
23	CRILE HEMOSTATIC ,Diss, Fcp CVD, 14cm, 5½ "	4
24	ROCHESTER PEAN hemost.fcps.cvd.16cm/6¼"	6
25	ROCHESTER PEAN hemost.fcps.cvd.18cm/7"	4
26	ROCHESTER PEAN hemost.fcps.STR.18cm/7"	2
27	ROCHESTER-OCHSNER hemostatic forceps 20cm/8", straight, 1x2 teeth	6
28	ROCHESTER-OCHSNER hemostatic forceps 16cm6¼"/, straight, 1x2 teeth	6
29	ROCHESTER-OCHSNER hemostatic forceps 16cm/6¼", curved, 1x2 teeth	4
30	ALLIS intestinal/tissue grasping forceps 20cm/8", 5x6 teeth	4
31	Mixer Forceps Rt Ang 7 -1/4"	2
32	MAYO HEGAR needle holder 18cm/7", TC	2
33	MAYO HEGAR needle holder 20cm/8", TC	1
34	LANGENBECK retractor. 21cm/8¼" 40x11 mm	2
35	US Army Navy Retractor, D/E,21cm, 8 ¼"Set of 2	1



36	Parker De Retractor 5/8x5 Set of 2	1
37	SENN, D/E, Retractor blunt 6" Set of 2	1
38	SENN, D/E, Retractor sharp 6" Set of 2	1
39	KELLY Retractor, 64x54mm, 26cm/10¼"	2
40	BONE HOOK, SHARP, VOLKMANN, 15 mm, 21cm	1
41	RETRACTOR, VOLKMANN, 22 cm, 1 sharp prong, 20 mm curve	1
42	FILE, BONE, 22 cm x 20 mm, flat	1
43	RASPATORY, FARABEU, 150x13mm, light curved, sharp	1
44	MALLET, 23 cm x 28 mm, 490 g, solid	1
45	MALLET, 18 cm x 28 mm, 240 g, solid	1
46	OSTEOTOME, STILLE, 20 cm x 15 mm, straight	1
47	OSTEOTOME, STILLE, 20 cm x 20 mm, straight	1
48	GOUGE, STILLE, 20 cm x 15 mm, straight	1
49	GOUGE, STILLE, 20 cm x 20 mm, straight	1
50	CURETTE, BONE, VOLKMANN, 22 cm, double-ended, fig. 2 and 4	1
51	CURETTE, BONE, VOLKMANN, 22 cm, double-ended, fig. 3 and 5	1
52	RONGEUR, BONE, LUER, 15 cm x 5 mm, strong curve	1
53	RONGEUR, BONE, LUER, 15 cm x 5 mm, strong curve	1
54	RONGEUR, BONE, BANE, 18 cm x 5 mm, curved	1
55	RONGEUR, BONE, LUER, 18 cm x 10 mm, heavy pattern	1
56	RONGEUR, BONE, STILLE- LUER, 23 cm x 10 mm, double action	1
57	FORCEPS, BONE CUT., LISTON, 17 cm, standard, straight	1
58	FORCEPS, BONE CUT., LISTON-STILLE, 27 cm, dou. act., angled	1
59	FORCEPS, BONE HOLDING, FERGUSON, 21 cm/4 x 4 teeth	2
60	FORCEPS, BONE HOLD., VERBRUGGE, 27 cm x 12 mm, dismountable	2
61	RETRACTOR, BONE, HOHMANN, 29 cm x 34 mm	2
62	BENNET , Tibia, Retractor, 9-1/2" Retractor Blade 1-3/4" Small	2
63	BENNET ,Tibia, Retractor, 9-1/2" Retractor Blade 2-3/4" Medium	2
64	Bennett Tibia Retractor, 9-1/2" Retractor Blade 3-3/4" Large	2
65	Lowman Clamp Small Jaw 1 -1/8"	1
66	Lowman Clamp 4-3/4" 1x1-1/2" Jaw	1
67	LEWIN BONE forceps serrated 7"	2
68	Weitlaner Retractor Sh 3x4 6-1/2"	1
69	Weitlaner-Beckman Retractor Sh 6"	1
70	Sayre Elevator Blunt D/E 6-1/2"	1
71	UNIVERSAL wire cutting scissor 12cm/4¾", TC, 1 cut. ed., lateral. ang., for soft wire up to Ø 1,2mm	
72	ROUX retractor no. 1 14cm/5½", 24x20/30x28mm, double ended	2
73	VOLKMANN retrac. 3 pr. 21,5 cm/8½" sharp	2
74	VOLKMANN retrac. 4 pr. 21,5 cm/8½" sharp	2
75	Periosteal Elevators 6mm, 17cm with hollow handle	
76	ISRAEL retractor 25cm/10"cm, 5 prongs, blunt, 45,0x50,0mm	2



77	HOHMANN mini bone lever 16cm/6¼", width 8,0mm, narrow tip	2
78	HOHMANN bone lever 27,5cm/11", width 24,0mm, wide and round tip	2
79	ADSON dressing forceps 12cm/4¾"	2
80	ADSON tissue forceps 12cm/4¾"	2
81	CHARRIERE amputation saw 30cm/11¾", length of blade 21cm/8¼"	1
82	FERGUSSON suction cannula 18,5cm/7¼" 7-8Fr./Ø 2,5mm, working length 11cm/4¼" with finger cut-off and stylet	1
83	FERGUSSON suction cannula 18,5cm/7¼" 9Fr./Ø 3,0mm, working length 11cm/4¼" with finger cut-off and stylet	1
84	Sponge Bowl 12 Oz	1
85	Iodine Cup 14oz 4 3/8x2 5/8"	1
86	KIDNEY DISH, medium, 250x140x40mm, stainless steel	1
87	KIDNEY DISH, large, 275x150x45mm, stainless steel	1

Item no.3

Basic Vascular Instruments Set

- These tools specifically designed to carry out different actions and to achieve various purposes during surgery or an operation.
- Instruments from well-known brand company .
- From (USA, Europe ,Japan)
- All instruments Made from Stainless Steel .
- Instruments ability to sterilize several times under steam temperature 134C° .
- Warranty at Least 7 Years .
- Guaranteed High-Quality Instruments both in Material & Function.
- Instruments provided non sterile .
- Reusable.
- Allowed to be washed by ultrasonic cleaner machine .
- Instruments in sets can be modified according to the customer's requirements.
- Each set should have freely Lubricants oil for instruments . Qty 3.
- Each set should have freely brush for cleaning instruments . Qty 3 .
- Each company must bring a catalog of instruments sets with photos and specifications .
- Companies must abide by the sets contents sent by us in the offer .

BASIC VASCULAR INSTRUMENTS SET		
N	ITEM	Q
1	BASKET, wire, STERILIZING, 655 x 255x 70mm, + lid	1
2	POOLE suction tube 23cm/9", Ø 8,0mm/23Fr with dismountable outer tube	1
3	YANKAUER suction tube 28,5cm/11¼" with suction tip Ø 10,0mm (central bore)	1



	∅ 2,0mm)	
4	FORCEPS, SPONGE, FOERSTER, 24cm, serrated jaws, straight	3
5	BACKHAUS towel forceps 13,5cm/5¼"	8
6	HOLDER, INSTRUMENTS, BUNT (MAYO), 14 cm	2
7	Scalpel handle 21cm/ 8 1/4" no. 3 L	1
8	Scalpel handle no. 4, 13,5cm/5¼"	1
9	Scalpel handle no. 7, 16cm/6¼"	1
10	MAYO scissors straight 14,5cm/5¾" TC	1
11	MAYO scissors curved 14,5cm/5¾" TC	1
12	MAYO scissors curved 17,5cm/6¾" TC	1
13	OPERATION Scissor 5 1/2" Str Sh/bl TC	1
14	METZENBAUM scissors cvd. bl/bl 14cm/5" TC	1
15	METZENBAUM scissors cvd. bl/bl 20cm/8" TC	1
16	METZENBAUM scissors cvd. bl/bl 22cm/8½" TC	1
17	POTTS SMITH vasc.scissors 25°, 19cm/7½" Black TC	1
18	POTTS SMITH vasc.scissors 45°, 19cm/7½" Black TC	1
19	POTTS SMITH vasc.scissors 60°, 19cm/7½" Black TC	1
20	POTTS SMITH vasc.scissors 90°, 19cm/7½" Black TC	1
21	FORCEPS, ADSON, dressing ,12 cm, serrated jaws	1
22	FORCEPS, ADSON, tissue ,12 cm, 1x2 teeth	1
23	Forceps dressing 14,5cm/5¾"	1
24	Forceps dressing 25,0 cm/9¾"	1
25	Forceps tissue 2x3 t. 14,5 cm/5¾"	1
26	Forceps tissue 1x2 t. 17,5cm/6¾"	1
27	DEBAKEY ,A traumatic , Fcp Str17,5cm/6¾" 2mm ,TC	2
28	DEBAKEY ,A traumatic , Fcp Str20.5cm , 8 ¼, 2mm,TC	1
29	DEBAKEY ,A traumatic , Fcp Str24.5cm , 9 ½, 2mm,TC	1
30	DEBAKEY ,A traumatic , Fcp cvd20.5cm , 8 ¼, 1.5mm,TC	1
31	DEBAKEY ,A traumatic , Fcp cvd24.5cm , 9 ½, 1.5mm,TC	1
32	Halsted Mosquito Fcp STR,12cm, 5"	4
33	Halsted Mosquito Fcp CVD,12cm, 5"	6
34	CRILE HEMOSTATIC ,Diss, Fcp Str, 14cm, 5½ "	2
35	CRILE HEMOSTATIC ,Diss, Fcp CVD, 14cm, 5½ "	4
36	CRILE HEMOSTATIC ,Diss, Fcp CVD, 18cm, 7 "	4
37	ROCHESTER PEAN hemost.fcps.cvd.14cm/5½"	4
38	ROCHESTER PEAN hemost.fcps.cvd.16cm/6¼"	4
39	ALLIS intestinal/tissue grasping forceps 20cm/8", 5x6 teeth 4	2
40	BABCOCK intestinal/tissue grasping forceps 16cm/6¼"	2
41	BABCOCK intestinal/tissue grasping forceps 21cm/8¼"	2
42	DEBAKEY needle holder .delicate 18cm TC	1
43	DEBAKEY needle holder .delicate 20cm TC	



44	MICROSURGICAL N/H , Castroviejo , STR, round handle 16cm/6¼" , black TC.	1
45	MICROSURGICAL N/H , Castroviejo , CVD, round handle 16cm/6¼" , black TC.	1
46	MAYO HEGAR needle holder 18cm/7", TC	1
47	Mixer Forceps Rt Ang 19cm/7½"	2
48	Mixer Forceps Rt Ang 23cm/9"	1
49	DESCHAMPS ligature needle 21cm/8¼", blunt, right	1
50	DESCHAMPS ligature needle 21cm/8¼", blunt, left	1
51	LANGENBECK retractor. 21cm/8¼" 40x11 mm	2
52	US Army Navy Retractor, D/E, 21cm, 8 ¼" Set of 2	1
53	Parker De Retractor 5/8x5 Set of 2	1
54	SENN, D/E, Retractor blunt 6" Set of 2	1
55	DEAVER retractor 50x300 mm / 2"x11¼"	2
56	KELLY Retractor, 64x54mm, 26cm/10¼"	2
57	HARRINGTON Retractor ,25.5cm length, Blade width 38 x 127mm (1-1/2" x 5")	1
58	HARRINGTON Retractor ,25.5cm length, Blade width 65 x 127mm (2-1/2" x 5")	1
59	PROBE, 16 cm/diam. 1.5 mm, round double-ended	2
60	SUCTION TUBE, FRAZIER, CH 12, 12.5 cm, angular	1
61	CLAMPS, BULLDOG, DIEFFENBACH, 51 mm, straight	4
62	CLAMPS, BULLDOG, DIEFFENBACH, 51 mm, curved	4
63	RETRACTOR, HOOK, NERVE, 16 cm x 9 mm, blunt	2
64	RETRACTOR, SELF-RET., WEITLANER, 16 cm, 3 x 4 blunt prongs	1
65	RETRAC., SELF-RET., ADSON, 31 cm, 4 x 5 blunt pr., laminect.	1
66	CLAMP, VASC., BULLDOG, DeBAKEY, 12 cm/ang.45deg,+ring handle	4
67	CLAMP, VASC., BULLDOG, DeBAKEY, 12 cm/ang.90deg,+ring handle	2
68	CLAMP, VASCULAR, DeBAKEY, 22 cm, straight	2
	CLAMP, VASCULAR, DeBAKEY, 22 cm, CURVED	2
69	CLAMP, VASCULAR, AORTA, DeBAKEY, 18 cm, pronouncedly shaped	2
70	CLAMP, Satinsky VASCULAR, DeBAKEY, 16cm, for tangential occlusion	2
71	CLAMP, Satinsky VASCULAR, DeBAKEY, 20cm, for tangential occlusion	2
72	CLAMP, Satinsky VASCULAR, DeBAKEY, 24 cm, for tangential occlusion	2
73	CLAMPS, BULLDOG, cooly cross action ,90mm length, 35 mm, STR	2
74	CLAMPS, BULLDOG, cooly cross action ,90mm length, 35 mm,CVD	2
75	CLAMPS, BULLDOG, cooly cross action ,124mm length, 69 mm, STR	2
76	CLAMPS, BULLDOG, cooly cross action ,124mm length, 69mm,CVD	2
77	OVERHOLT GEISSENDOERFER fig. 2, 21cm/8¼"	2
78	OVERHOLT GEISSENDOERFER fig. 5, 21cm/8¼"	2
79	Sponge Bowl 12 Oz	1



80	Iodine Cup 14oz 4 3/8x2 5/8"	1
81	KIDNEY DISH, medium, 250x140x40mm, stainless steel	1
82	KIDNEY DISH, large, 275x150x45mm, stainless steel	1

Item no.4

Ceiling Operation Light

Functional and Technical Specifications:

- Good brand name Manufacturer (USA, European Union, Japan) and should be proven in MOH and has good reputation and high efficiency.
- **Composition:** Consists of two head (Main and Satellite or Auxiliary)–LED Technology
- **Mechanical design:** operating light consisting of a ceiling tube, a horizontal tracking arm, a spring arm, a cardan joint and a light head. the suspension arm system offers free movability (360°)
- **light head consisting of:**
 - Diameter of Lights 65-70 cm
 - Number of bulbs at least 50 LEDs.
 - Illumination intensity 160,000lux.at least.
- **Auxiliary Head :**
 - Diameter of Lights 65-70
 - Number of bulbs at least 50 LEDs.
 - Lluminationintensity160,000 lux. at least.
- **General Features:**
 - All operating functions can be controlled via an ergonomic, flush-integrated membrane keypad.
 - Two Power module, primary voltage 100 – 240 VAC, 50 – 60 Hz with Voltage Stabilization
 - Voltage at point of wall- or ceiling-mounting 24 – 30 VDC
 - Provided with suitable original UPS
 - Color temperature: 4000– 4500Ko
 - Digital controlled light intensity with 10 grades of brightness



- Focusing Depth adjustment
- Diameter Light field size 24-33 cm Adjustable
- Type of reflector: Cold mirror provided with heat absorbing filter.
- No infrared or ultraviolet radiation
- Long life bulbs>40000hours.
- Lamp Shape Suitable For Laminar Flows
- Provided with Synchronization control
- Provided with endoscope light
- Soft-start (light does not start immediately with full brightness)
- Working distance is (80~ 150) cm
- Removable sterilizer handle: Two Pieces.
- spare parts two set of LED module and one Power module
- Remove any existing parts not-required and not-necessary to complete the new work.
- Quotation including civil, mechanical and electrical works (ready for use).
- All of service and operation manual are included
- Power, Standards, Safety, Documentation and Training:
- Power input: 220 VAC, $\pm 10\%$, 50 Hz.
- New catalogue is attached with the offer
- All standard and safety certificates should be included (ISO, FDA, CE, etc.)
- All necessary standard accessories and ready for use.
- List of important spare parts and accessories with their part number and costing.
- Warranty for the supply of spare parts for a minimum period of 10 years.
- 3 years warranty

Item no.5

Laparotomy Instruments Set

- These tools specifically designed to carry out different actions and to achieve various purposes during surgery or an operation.
- Instruments from well-known brand company .
- From (USA, Europe ,Japan)
- All instruments Made from Stainless Steel .



- Instruments ability to sterilize several times under steam temperature 134C° .
- Warranty at Least 7 Years .
- Guaranteed High-Quality Instruments both in Material & Function.
- Instruments provided non sterile .
- Reusable.
- Allowed to be washed by ultrasonic cleaner machine .
- Instruments in sets can be modified according to the customer's requirements.
- Each set should have freely Lubricants oil for instruments . Qty 3.
- Each set should have freely brush for cleaning instruments . Qty 3 .
- Each company must bring a catalog of instruments sets with photos and specifications .
- Companies must abide by the sets contents sent by us in the offer .

LAPAROTOMY INSTRUMENT SET		
N	ITEM	Q
1	BASKET, wire, STERILIZING, 685 x 255x 100mm, + lid	1
2	POOLE suction tube 23cm/9", Ø 8,0mm/23Fr with dismountable outer tube	1
3	YANKAUER suction tube 28,5cm/11¼" with suction tip Ø 10,0mm (central bore Ø 2,0mm)	1
4	FORCEPS, SPONGE, FOERSTER, 24cm, serrated jaws, straight	4
5	BACKHAUS towel forceps 13,5cm/5¼"	8
6	HOLDER, INSTRUMENTS, BUNT (MAYO), 14 cm	2
7	Scalpel handle 21cm/ 8 1/4" no. 3 L	1
8	Scalpel handle no. 4, 13,5cm/5¼"	1
9	Scalpel handle no. 7, 16cm/6¼"	1
10	MAYO scissors straight 14,5cm/5¾" TC	1
11	MAYO scissors curved 14,5cm/5¾" TC	1
12	MAYO scissors curved 17,5cm/6¾" TC	1
13	OPERATION Scissor 5 1/2" Str Sh/bl TC	1
14	OPERATION Scissor 5 1/2" Cvd Sh/bl TC	1
15	METZENBAUM scissors cvd. bl/bl 14cm/5" TC	1
16	METZENBAUM scissors cvd. bl/bl 20cm/8" TC	1
17	METZENBAUM scissors cvd. bl/bl 25cm/9¾" TC	1
18	POTTS SMITH vasc.scissors 25°, 19cm/7½"	1
19	Forceps dressing 14,5cm/5¾"	2
20	Forceps dressing 25,0 cm/9¾"	1
21	Forceps tissue 1x2 t. 25,0 cm/9¾"	1
22	Forceps tissue 2x3 t. 14,5 cm/5¾"	1



23	Russian Tissue Fcp,21cm, 8"	2
24	DUVAL grasp. forceps 13mm/17cm	1
25	DUVAL grasp. forceps 13mm/20cm	1
26	DEBAKEY ,A traumatic , Fcp Str24.5cm , 9 ½, 1.5mm	1
27	DEBAKEY ,A traumatic , Fcp Str20.5cm , 8 ¼, 2mm	2
28	Hartmann Mosquito STR ,Serr, 9cm,3½"	2
29	Hartmann Mosquito CVD ,Serr, 9cm,3½"	4
30	Halsted Mosquito Fcp STR,12cm, 5"	4
31	Halsted Mosquito Fcp CVD,12cm, 5"	6
32	CRILE HEMOSTATIC ,Diss, Fcp Str, 14cm, 5½ "	4
33	CRILE HEMOSTATIC ,Diss, Fcp CVD, 14cm, 5½ "	6
34	CRILE HEMOSTATIC ,Diss, Fcp CVD, 18cm, 7 "	4
35	ROCHESTER PEAN hemost.fcps.cvd.14cm/5½"	6
36	ROCHESTER PEAN hemost.fcps.cvd.16cm/6¼"	6
37	ROCHESTER PEAN hemost.fcps.cvd.18cm/7"	6
38	ROCHESTER PEAN hemost.fcps.STR.18cm/7"	2
39	ROCHESTER-OCHSNER hemostatic forceps 20cm/8", straight, 1x2 teeth	4
40	ROCHESTER-OCHSNER hemostatic forceps 16cm/6¼", curved, 1x2 teeth	4
41	LAHEY gall duct forceps 19cm/7½"	2
42	LAHEY gall duct forceps 23cm/9"	2
43	BALFOUR abdominal retractor 20cm/8" Lateral blades 63x35mm, Center blade 45x80mm, spreading 180mm	1
44	ALLIS intestinal/tissue grasping forceps 15cm/6", 5x6 teeth 4	4
45	ALLIS intestinal/tissue grasping forceps 20cm/8", 5x6 teeth 4	4
46	BABCOCK intestinal/tissue grasping forceps 16cm/6¼"	4
47	BABCOCK intestinal/tissue grasping forceps 21cm/8¼"	4
48	DEBAKEY needle holder .delicate 20cm TC	1
49	MASSON needle holder, TC	1
50	WANGENSTEEN needle holder . narrow TC	1
51	MAYO HEGAR needle holder 18cm/7", TC	2
52	DESCHAMPS ligature needle 21cm/8¼", blunt, right	1
53	DESCHAMPS ligature needle 21cm/8¼",blunt, left	1
54	LANGENBECK retractor. 21cm/8¼" 40x11 mm	2
55	US Army Navy Retractor, D/E,21cm, 8 ¼"Set of 2	1
56	Parker De Retractor 5/8x5 Set of 2	1
57	SENN, D/E, Retractor blunt 6" Set of 2	1
58	DEAVER retractor 38x300 mm / 1½"x11¾"	1
59	DEAVER retractor 50x300 mm / 2"x11¾"	2
60	HABERER retract.mall.17/25mm, 20cm/8"	1
61	HABERER retract.mall.37/45mm, 30cm/12"	1
62	KUEMMEL Abdominal- and intestinal spatula, malleable 46mm 28,5 cm, with hollow handle	1



63	KELLY Retractor, 64x54mm, 26cm/10¼"	2
64	KOCHER retractor 25cm/10" 80x45 mm	1
65	MIKULICZ retractor 26cm/10¼" 150x50 mm	1
66	FRITSCH retractor 24cm/9½" 45x75mm	1
67	OCHSNER gall bladder trocar 14,5cm/5¾",16 Fr.	1
68	LANE stomach clamp forceps	1
69	DOYEN intest.fcps., straight 23 cm, a traumatic, STR	1
70	DOYEN intest.fcps., straight 23 cm, a traumatic, CVD	1
71	DOYEN intest.fcps., straight 21 cm, STR	1
72	DOYEN intest.fcps., straight 21 cm, CVD	1
73	HARKEN auricle clamp Db.curve	1
74	SATINSKY anastomosis. clamp ,STANDARD	2
75	KOCHER intest. forceps, atraum. STR ,22cm	1
76	KOCHER intest. forceps, atraum. CVD ,22cm	1
77	KOCHER intest. forceps, STR ,22cm	1
78	KOCHER intest. forceps, CVD ,22cm	1
79	PAYR int.crushing clamp 29cm with pin	1
80	PAYR baby crushing clamp 15cm with pin	1
81	CLAMP, VASCULAR, AORTA, DEBAKEY, 18 cm, pronouncedly shaped	1
82	Sponge Bowl 12 Oz	1
83	Iodine Cup 14oz 4 3/8x2 5/8"	1
84	KIDNEY DISH, medium, 250x140x40mm, stainless steel	1
85	KIDNEY DISH, large, 275x150x45mm, stainless steel	1
86	FORCEPS, HYSTERECTOMY, WERTHEIM, 23 cm, 1 x 2 teeth, curved	4
87	Mixer Forceps Rt Ang 19cm/7½"	2
88	Mixer Forceps Rt Ang 23cm/9"	2

Item no.6

Anesthesia Machine with Monitor

Functional and Technical Specifications:

- Well-known Brand Name Manufacture (USA – Japan- Europe)/ else it should be proven in MOH and has good reputation and high efficiency.

Flow management

- Should be Compact, ergonomic & easy to use
- Machine should provide electronic gas mixing.
- Multi-color screen display of at least 15" size, with virtual flow meters for O2, N2O or Air



- Should have back-up O2 control which provides an independent fresh gas source and flow meter Control in case of electronic failure.
- Gas regulators shall be of modular design/ graphic display
- One no. yoke each for Oxygen & Nitrous Oxide. Separate Pipeline inlet for Oxygen, Nitrous Oxide and Air
- Hypoxic Guard to ensure minimum 25% O2 across all O2-N2O mixtures and Oxygen Failure Warning

Breathing system

- Latex free fully autoclavable.
- Sensor should not require daily maintenance.
- Bag to vent switch shall be bi-stable and automatically begins mechanical ventilation in the ventilator position.
- Adjustable pressure limiting valve shall be flow and pressure compensated.

Standard Circle Absorber System

- Should have adjustable pressure limiting valve, breathing circuit pressure measuring device.
- Should have a bag/ventilator selecting valve integrated on to the absorber.
- Should be suitable to use low flow techniques
- Facility to attach oxygen sensor. Should have CO2 absorbent chamber canister

Vaporizers

- New generation Vaporizer must be isolated from the gas flow in the off position and prevent the simultaneous activation of more than one vaporizer.
- Vaporizer should mount to a Selectatec manifold of 2 vaporizers, which allows easy exchange between agents.
- Temperature, pressure and flow compensated vaporizers and Maintenance free - for Isoflurane and Sevoflurane.

Ventilator (Integrated)



- The workstation should have integrated Anesthesia Ventilator system for adult and pediatric.
- Ventilator should have Volume Control and Pressure Controlled SIMV and PEEP.
- Ventilator should have a tidal volume compensation capability to adjust for losses due to compression, compliance and leaks; and compensation for fresh gas flow.
- The workstation should be capable of delivery of low flow anesthesia.
- Ventilator should be capable of at least 120-150 L/min peak flow to facilitate rapid movement through physiologic “dead space” in the Pressure Control mode.

Display of Ventilator:

- Tidal volume (VT)).
- Inspiratory/expiratory ratio (I:E).
- Inspiratory pressure (Pinspired).
- Pressure limit (Plimit).
- Positive End Expiratory Pressure (PEEP).

System Configuration Accessories, spares and consumables:

- Anesthesia Gas Delivery system -01.
- Circle absorber –01 (Twin Chamber).
- Ventilator -01.
- Vaporizer Sevoflurane -01.
- Vaporizer Isoflurane -01.
- Adult and Pediatric autoclavable silicone breathing circuits # 02

Anesthesia Monitoring System:

- Minimum 15 inches multicolored TFT display screen.
- 5 digital and waveforms/traces display.
- Multichannel (up to 12 leads) ST segment analysis.



- Facility to monitor and display - ECG, Respiration, NIBP, SpO2, Temp, IBP, Cardiac Output (option) and EtCO2.
- Automatic arrhythmia detection & alarm for standard and lethal arrhythmia.
- Automatic Zoom in Facility in the monitor display.
- ECG/Resp:10 Lead ECG Cable with clip- 2 set per monitor
- NIBP: Adult & pediatric cuff- 2x per monitor (complete sets).
- SpO2: Adult, Ped & Neo. SpO2 sensor with cable- 2x per monitor.
- IBP: Include per monitor of reusable pressure transducer with bracket, holder and 20 x disposable domes per monitor.
- EtCO2 module with all accessories. Side stream EtCO2- 2 sets (set of 100 pcs at least) of sampling tubes for each module to be included.
- Temperature: skin temperature probe- 2x per monitor.
- Accessories Anesthetic gases-01 set.
- Accessories for Cardiac Output module- 01 set.
- Standard accessories to make all parameters working- 01 set.
- Disposable Adult & Pediatric circuits #10.
- Adult and pediatric reusable chest electrodes each set of Qty (2)
- Oxygen cylinder as back up

Power Supply:

- Power input to be 220-240VAC, 50Hz.
- UPS of suitable rating shall be supplied for minimum 1-hour backup for the entire system

Documentation:

- Equipment should have been FDA, European CE, approved product certificate should submit
- User and Service Manual in English.



- List of important spare parts and accessories with their part number and costing.
- Warranty 5 years
- Warranty for not less than 10 years for spare parts.

Item no.7

Suture Set

- These tools specifically designed to carry out different actions and to achieve various purposes during surgery or an operation.
- Instruments from well-known brand company .
- From (USA, Europe ,Japan)
- All instruments Made from Stainless Steel .
- Instruments ability to sterilize several times under steam temperature 134C° .
- Warranty at Least 7 Years .
- Guaranteed High-Quality Instruments both in Material & Function.
- Instruments provided non sterile .
- Reusable.
- Allowed to be washed by ultrasonic cleaner machine .
- Instruments in sets can be modified according to the customer's requirements.
- Each set should have freely Lubricants oil for instruments . Qty 1.
- Each set should have freely brush for cleaning instruments . Qty 1 .
- Each company must bring a catalog of instruments sets with photos and specifications .
- Companies must abide by the sets contents sent by us in the offer .

SUTURE INSTRUMENT SET		
N	ITEM	Q
1	FORCEPS, TISSUE, LANE, 14cm, 1x2 teeth	1
2	FORCEPS, dressing, LANE, 14cm, serrated	1
3	NEEDLE HOLDER, MAYO-HEGAR, 18 cm, standard	1
4	FORCEPS, HEMOSTATIC, KOCHER, 14 cm/1x2 teeth, STR	1
5	FORCEPS, HEMOSTATIC, CRILE, 14 cm, curved	1
6	SCISSORS, MAYO, 16 cm, curved	1
7	SCISSORS, suture, 18 cm, B/S , straight	1
8	FORCEPS, SPONGE, FOERSTER, 20cm, serrated jaws, straight	1
9	BOWL, ROUND, 100 ml, 80 x 35 mm, stainless steel	1
10	KIDNEY DISH, large, 275x150x45mm, stainless steel	1



Item no.8

Laryngoscope 5 Blades

Functional and Technical Specifications:

- Well-known Brand Name manufacture.
- Laryngoscope with Fiber optic illumination
- Blade type Macintosh Size 0, 1, 2, 3, 4 with fiber optic illumination
- Fitting Blade: hook on fitting
- Tip adjustable on the blade to provide the Clinician with greater flexibility, especially in cases of difficult incubating
- Uses four different angles between the blade and handle i.e. 90-degree, 45-degree 180-degree and 135 degree (Standard)
- With four locked position light remains illuminated during changing from one position to another
- Complete Set provided in Zippered Case
- SS or chrome plated knurled finish Handle Miller type to be quoted as option

Service and warranty

- Service and operational manual in English language (Hard & Soft) copy.
- Equipment should have be FDA, European CE, approved product certificate should submitted
- Manufacturer should have ISO certification for quality standards certificate should be submitted
- Warranty 3 years
- Warranty for not less than 10 years for spare parts .

Item no.9

Electro Surgical Unit - Diathermy

- Functional and Technical Specifications:



- Well-known Brand Name Manufacture (USA – Japan- Europe)/ else it should be proven in MOH and has good reputation and high efficiency.
- Specifications:
 - Should be microcontroller, programmable, where 10 different programs with isolated outputs compact, digital displayed, resolution one-watt doctors can programmed in individual mode.
- Should have unipolar cutting and coagulation as well as bipolar cutting and coagulation modes and have the facility of blending cutting and coagulation in different ratios and degree –soft, standard and or forced coagulation and spray coagulation.
- Arc controlled cutting with a pre selectable power of maximum of 400 watts in both unipolar and bipolar modes.
 - 3- Arc controlled coagulation with a pre selectable power of maximum of 400 watts in both unipolar and bipolar modes.
 - 4- Auto stop function with automatic power – off on completion of coagulation process.
 - 5- Automatic start function for bi- polar coagulation. Should be operable both in hand and foot mode and should have hand control switch on the handle of the electrode. Bipolar application with irrigation with sodium chloride.
 - 6- Endoscopy mode with reduced voltage output for use with fine endoscopic electrodes. (micro function)
 - 7- It should have automatic read out panel to display current being used and actual output at distal tip of electrode, simple operation due to clearly arranged control with easy to read symbols.
 - 8- Should be compatible with under water operative procedures.
 - 9- It should have neural electrode monitoring through a patient contact system.
- 10- It should have automatic high frequency power cut off by auto coagulation stop and auto start facility.
 - 11- The unit should have the facility of self testing for trouble shooting.
 - 12- Visual and acoustic signs of HF activation by different colored indicators and different acoustic tones for cutting and coagulating.
 - 13- Unit should have safety monitoring circuit in event of malfunction for output Monitoring. Neutral electrode connection. Automatic self test and automatic power cutoff in event of malfunction. Ground leakage current (LF/HF) HF application time.



- System Configuration Accessories, spares and consumables:
- The accessories should include
 - (a) trolley,
 - (b) mains cable with power plug for standard local sockets,
 - (c) foot switches for different outputs,
 - (d) Patient plate reusable (Qty 5).
 - (e) sterilizable and disposable electrode handle with and without finger switch with cable for electrode handle,
 - (f) set of electrodes (long and short) with electrode container with holder,
 - (g) tip cleaner,
 - (h) bipolar forceps with cable
- The system should be capable of accepting standard accessories of major international brands, which should be specified and for which suitable adaptor, if required, is to be quoted.
- The codes and rates of all possible individual accessories should be quoted separately with clear mention of period of validity of rates.
- Power input to be 220-240VAC, 50-60Hz.
- Documentation:
 - Certificate of calibration and inspection from factory.
 - Should be FDA, CE approved product.
 - Manufacturer/Supplier should have ISO certification for quality standards.
 - List of important spare parts and accessories with their partNumber and costing.
 - User and Service manual in English.
- STANDERDS:
 - Equipment should have be FDA, European CE, approved product certificate should submitted
 - Warranty 3 years
 - Warranty for not less than 10 years for spare parts

Item no.10

ENT Examination Unit

Technical Specifications:



Main ENT treatment and diagnostic unit

- Well-known Brand Name Manufacture from (USA, Japan, Europe) /else it should be proven in MOH and has good reputation and high efficiency.
- Steel housing 550 mm with PUR shaped top parts.
- Easy access to air filter, condensation discharge and liquid bottle.
- Head light should be provided equivalent to 200w halogen
- One channel high performance light source for light conductor.
- LED lamp in the source of light in the system.
- Life time of lamp more than 50,000 h.
- Automatic light control.
- Large instrument surface that pre warms all instruments, two storied, with aluminium trays and set of stainless steel dividers and Plexiglas cover, to protect instruments.
- Compressed air unit, continuously adjustable from 0.1-4 bar, (Spray / politzer), fine regulation hand piece, pressure limiter.
- Compressed air handle and tube must be autoclavable and made from Stainless steel.
- 3 spray bottles in different colours with glass protection in Stainless steel.
- Cannulas in two different diameters
- The System contain a 1, 5 Liter, tank capacity of compressed air.
- The compressor is completely separated from the suction unit, silently motorized.
- Motor suction unit, silently motorized, -0.92 bar max.
- Vacuum, 32 Liters /min., bacterial filter, double overflow control fuse, 1.25 liter liquid container.
- The suction tube is equipped with an automatic on/off switch for the vacuum function.
- A small ear rinsing funnel is included in the System.
- Suction tube must be autoclave able.
- Mirror reheating unit, single handed heating function with 6 V heating coil.
- Drawer as a writing surface with removable on steel telescope guides.
- Plexiglas shelf insert
- Paper dispenser drawer.
- Instrument drawer with aluminum trays and set stainless steel dividers
- Big storage drawer
- Warm water rinsing device, complete with chrome plated handle, Handle, is autoclavable as well as the tube snap closure system, to connect the tube, fine spray regulation valve, 38° water temperature, water is heated in a separate tank system, to prevent mineral built-up, system includes sinus drainage tube (Luer), as well as several front cannulas (Luer) and a water supply hose.
- Including autoclavable water filter with cartridge.
- Suction pipe cleaner with exchangeable, reusable, chrome plated adapter. The adapter is shaped like a cone, to make it suitable for tubes and suction pipes of different



diameters. The reservoir for the disinfection liquid (1 Ltr.) isolated in the service box. Adapter is autoclavable.

- Automatic liquid container discharge, through existing water drain connections. Must have separate motor.
- Kidney shaped ear rinsing funnel on a swivel support including ear wax Separator and anatomically shaped Ear insert.
- With additional suction tube connected to the liquid jar.
- Operated through a switch in the front Panel.
- Mirror preheating unit, thermostat control, adjustable for more than 50 mirrors of different sizes, detachable for cleaning, also preheating function of instrument deposit surface.
- Waste container and melamine drawer for used Instruments.
- To be provided in a stainless steel drawer for hygienic aspects
- Wall or floor connection box, with control valve, to connect the water.
- Operating otoscope lens for LED pen light (1 pcs) included.
- Supply and water drain hose to existing plumbing connections.

1- Vision system:

- Freezing auto white balance.
- Quick resolution setting (Ear, Nose, Throat).
- CCD Camera (1/3 inch).
- Adapter for light conductor must be included.
- Light guide (glass fibre type).
- 19 inch LCD monitor for medical application with arm set.
- Simple to change scope.

- **Rigid Endoscope:**

- Otoscope (0deg/2.7φ/60mm)
- Sinuscope (30deg/4.0φ/175mm)
- Laryngoscope (70deg/60φ/185mm)

- **Doctor chair:**

- Pneumatic foot operated
- Wide base with 4 or 5 wheels castor with break.
- Should have back rest.
- Complete with all accessories and ready for use.

Patient chair:

- Electrical operated
- Wide base with 4 movement up, down, left & right.
- Should be heavy duty and support weight up to 180kg.
- Complete with all accessories and ready for use.

Power, Standards, Safety, Documentation and Training:

- Power input: 220 VAC, ±10%, 50 Hz.



- Should be FDA/CE approved product.
- Certificate of calibration and inspection.
- All necessary standard accessories and ready for use.
- Country of origin and source (clarification certificate).
- Warranty 3 years from acceptance date including spare parts, labor and preventive maintenance.
- Warranty 10 years for spare parts.

INSTRUMENTS INCLUDED

NAME	DESCRIPTION
Hartmann Ear Speculum	Set of 3 pieces \varnothing 1.7 / \varnothing 3.2 / \varnothing 4.7 mm , stainless steel , stain finish for children
Hartmann Ear Speculum	Set of 4 pieces \varnothing 3.2 / \varnothing 5 / \varnothing 8 mm , stainless steel , stain finish for adult
Classic Otoscope Set	Complete with otoscope battery handle , 1 set of 5 reusable specula diameter 2.5 , 3.5 , 4.5 , 5.5 and 9 mm in soft pouch with spare lamp
Ferguson ackland mouth gag	145 mm , 5 3/4 °
Killian nasal specula	70*7 mm , 145 mm , 5 1/2 °
Laryngeal mirror	24 mm diameter , 180 mm , 7°
Zaufal ear lever	16 cm , 6 1/4 °
Lucae ear hook medium	140 mm , 5 1/2 °
Wagener ear hook probe ended	150 mm , 8 °
Buck ear currettes	Straight / blunt \varnothing 2,5 mm , 17 cm , 6 3/4°
Buck ear currettes	Straight / blunt \varnothing 3 mm , 17 cm , 6 3/4°
Lucae ear and nasal dressing forceps	Bayonet shaped , standard model , 14 cm , 5 1/2°
Jansen ear and nasal dressing forceps	Bayonet shaped , standard model , 16 cm , 6 1/4°



Hartmann ear tempon forceps	Delicate model, 12.5 cm , 5°
Micro ear forceps	With sliding shaft , serrated jaws . 4*0.8 mm , straight , 80 mm working length
Hartmann ear grasping forceps	Straight , working length 85 mm
Tissue forceps	1*2 teeth , medium 145 mm 5 3/4 °
Dissecting forceps	medium 145 mm 5 3/4 °
Rosen (house) suction cannulas	with luer-lock connection , ø 1.5 mm diameter , 105 mm , 4
Rosen (house) suction cannulas	with luer-lock connection , ø 2.0 mm diameter , 105 mm , 4
Rosen (house) suction cannulas	with luer-lock connection , ø 2.5 mm diameter , 105 mm , 4

Item no.11

Universal T-Handle ē Check

- These tools specifically designed to carry out different actions and to achieve various purposes during surgery or an operation.
- Instruments from well-known brand company .
- From (USA, Europe ,Japan)
- All instruments Made from Stainless Steel .
- Instruments ability to sterilize several times under steam temperature 134C° .
- Warranty at Least 7 Years .
- Guaranteed High-Quality Instruments both in Material & Function.
- Instruments provided non sterile .
- Reusable.
- Each 5 Pcs of T-Handle should have freely Lubricants oil Qty 1.
- Each company must bring a catalog of instruments sets with photos and specifications .

General information

To introduce / remove Steinman pin, or Schanz screw in / from bone by hand.

Well-known Brand Name Manufacture (USA, European, Japan)



Specifications

Material: T-handle: austenitic steel (non-quenched, non-magnetic steel) , Chuck: martensitic steel (quenched, magnetic steel)

Description:

- ❖ Hand drill with 3 jawed chuck (Jacob),
- ❖ locking device and T handle. locking device can be automatic or manual
- ❖ supplied with wrench
- ❖ Axial channel for wire and pins
- ❖ Keyless chuck for insertion and removal of Steinmann pins.
- ❖ Cannulation accepts wires and pins up to .236 (6.0mm).
- ❖ Chuck accepts wires and pins up to 1/4" (6.35mm).

Item no.12

Mayo Stand Stainless Steel

• Functional and Technical Specifications:

- Good brand name manufacture- Well Known brand name with good reputation
- High-quality 304 Stainless steel structure
- Hydraulic height adjustable pump activated by foot pedal





- Removable stainless steel upper tray of 650x530x20mm
- The shelves Thickness not less than 1.5 mm
- High impact ABS base
- 80mm rolling wheels, two with brakes
- Dimensions L (80 cm), W(35cm).h (89-126) Approx
- Push handle.
- All standard and safety certificates should be included (ISO, FDA, CE, etc.)
- Country of origin and source (clarification certificate).
- Warranty 3 years

Item no.13

Apron for Radiation X-ray Protection

Lead Aprons:

- Aprons with neck protection, size (XL) (Qty 2) and size (L)(Qty 1)
- Double size apron
- 0.35 Pb thickness
- Width 60 cm
- Length 100 cm
- Color blue
- With stretch belt