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Main BoQ of the Site
Medical Equipments, Sterilization, Electromechanical Equipments, Medical Gas, Furniture
and Training

جدول الكميات الرئيسي للموقع
الأجهزة الطبية، التعقيم، الأجهزة الكهروميكانيكية، أجهزة الغازات الطبية، الأثاث و التدريب

No.	Item name	Product	Production	Origin of Goods	Qty.
1	Anesthesia Machine	Prima SP2	Penlon	UK	4
1 alternative	Anesthesia Machine	Aespire 7100	GE Healthcare	USA	4
2	Operating Table	SATURN SELECT 3.02	Trumpf	Germany	4
3	Mobile Surgical Light	TruLight 3300 Mobile	Trumpf	Germany	4
4	Surgical Light	TruLight 5500/ 5300/ vidiapORT 2000 (with integrated camera) and TFT Monitor 19"	Trumpf	Germany	4
5	Mobile Examination Light	TruLight 1000	Trumpf	Germany	4
6	Major Operating Led Kalea 20+30	Included in item #4			0
7	Electrosurgical Unit	ARC300e	Bowa	Germany	4
8	C-Arm	Arcovis 3000 S	VILLA MEDI	Italy	1
	C-Arm with Angiography Option	SXT-1000A/92 9" +ORPaxera HFV Basic 200	Toshiba & PAXERAMED	Japan & USA or from EU origin	1
9	Automatic External Defibrillator Monitor	LIFEPAK® 20e	Physio-Control	USA	7
10	Oxygen flowmeter	Included in Medical Gas Solution			0
11	Oxygen humidifier	Included in Item #1			0
12	Air flowmeter	Included in Medical Gas Solution			0
13	Regulator, Suction w/ Canister Set	Master45	Ardo	Switzerland	16
14	Emergency manual resuscitator- adult	Adult Silicone Bag-Valve-Mask	O-TWO	Canada	12
15	Emergency manual resuscitator- infants	Child Silicone Bag-Valve-Mask	O-TWO	Canada	12
16	Emergency manual resuscitator- neonates	Easy Grip® Silicone Bag-Valve-Mask	O-TWO	Canada	12
17	Medical Oxygen Cylinder	Medical Oxygen Cylinder	O-Two	Canada	4
		Medical Oxygen Regulator	O-Two	Canada	4
18	Diathermy	Included in Item #7			0
19	CO2 Laser for Special Application			Europe or USA or Japan	1
	CO2 Laser for General Application			Europe or USA or Japan	1
20	Blood Warmer	Included in Item #21			0
21	Blood and fluid accelerator	Level 1® H-1200	Smith Medical	USA	4
22	Anesthesia Vital Sign Monitor	M5 patient monitor	Penlon	UK	4
22 alternative	Anesthesia Vital Sign Monitor	ARGUS LCX	Schiller A.G.	Switzerland/ France	4
22 alternative	Anesthesia Vital Sign Monitor	Dash 5000	GE Healthcare	USA	4



No.	Item name	Product	Production	Origin of Goods	Qty.
23	Portable oxygen analyzer and monitor	Included in Item #22			0
24	Patient Warmer	HICO-Aquatherm 660	HIRTZ	Germany	4
25	Portable pulse oxymeter	Included in Item #22			0
26	Argon plasma coagulator	Arc Plus	Bowa	Germany	4
27	Tens nerve stimulator	Stimuplex HNS12	Braun	UK	4
28	Pressure cuff manometer for local anaesthesia	Included in Item #29			0
29	Automatic tourniquate with stand	SCT 2	Braun	UK	4
30	Macintosh fiber optic Laryngoscope blade sizes 1, 2, 3 & 4		Heine	Germany	4
31	MILLER F.O. BLADE size 0,1,2		Heine	Germany	4
32	Infusion Pump	Graesby 3000	Smith Medical	UK	16
33	Syringe Pump	Graesby 3100	Smith Medical	UK	4
34	Multipurpose cart	LifeLine Cart LECCRP2	METRO	USA	4
35	patient transfer bed	Included in Recovery Area item #71			0
36	Anesthesia stool	Anesthesia stool	FAZZINI	Italy	4
37	Surgeon stool	Surgeon stool	FAZZINI	Italy	4
38	Assistant surgeon stool	Assistant surgeon stool	FAZZINI	Italy	4
39	Mayo table	Mayo table	FAZZINI	Italy	4
40	Instrument trolley	Instrument trolley	FAZZINI	Italy	4
41	Steel trolley with 2 trays	Included in item #40			0
42	Trolley for 2 bags	Trolley for 2 bags	FAZZINI	Italy	4
43	Single bowl stand	Single bowl stand	FAZZINI	Italy	4
44	Double bowl stand	Double bowl stand	FAZZINI	Italy	4
45	Mobile IV stand	Mobile IV stand	FAZZINI	Italy	12
46	Two step foot stool	Two step foot stool	FAZZINI	Italy	4
47	Waste plastic trolley	Waste plastic trolley	FAZZINI	Italy	4
48	Surgical Pendant	TruPort 7500 - 1865 AN	Trumpf	Germany	4
49	Anesthesia Pendant	TruPort 7500 - 1865 AN	Trumpf	Germany	4
50	Ambient ceiling light for operation room	Included in Item #4			0
51	Clock System	Included in item (Modular Room System for ORs)			0
52	Bedsore Mattress	Ripple Air Mattress & Compressor	Braun	UK	4
53	laproscopic unit	laproscopic unit		Europe or USA or Japan	1
54	Rigid Systoscopy	Rigid Systoscopy		Europe or USA or Japan	1
55	Fibro-optic Systoscopy	Fibro-optic Systoscopy		Europe or USA or Japan	1
56	Rigid Sigmoidoscopy	Rigid Sigmoidoscopy		Europe or USA or Japan	1
57	Fibro-optic Sigmoidoscopy	Fibro-optic Sigmoidoscopy		Europe or USA or Japan	1
58	Proctoscopy with metallic O2 regulator with accessories	Proctoscopy with metallic O2 regulator with accessories		Europe or USA or Japan	1
59	Reflometer	Reflometer		Europe or USA or Japan	1
60	Metal detector	Metal detector		Europe or USA or Japan	1
61	Blood gaz analyzer	Blood gaz analyzer		Europe or USA or Japan	1
62	Serum electrolyte	Serum electrolyte		Europe or USA or Japan	1
63	Short Celoscopy	Short Celoscopy		Europe or USA or Japan	1
64	Neuronavigator system	Cygnus-PFS™ Image Guided Surgery (IGS)	COMPASS International Innovations, Inc.	USA	1
65	Neuro surgical microscope	Neuromicroscope		Europe or USA or Japan	1
66	IT-Solution & Digital OR Environment	TruVidia SD7000, i-Control	HT, Trumpf, Others	Germany	4
67	Modular Room System for ORs	different as Room to Room Medical Equipments BoQ & Specs	HT	Germany	According to plan



No.	Item name	Product	Production	Origin of Goods	Qty.
68	Modular Room System for Scrub-up Area	different as Room to Room Medical Equipments BoQ & Specs	HT	Germany	According to plan
69	Modular Room System for Clean Corridor	different as Room to Room Medical Equipments BoQ & Specs	HT	Germany	According to plan
70	Transport Trolley	Model 747	Stryker Medical	USA	5
71	Bed head Unit	OKI BASIC GAS	LM Medical Division S.r.l.	Italy	13
72	Wall Mounted Patient Monitor	M5 patient monitor	Penlon	UK	13
72 alternative	Wall Mounted Patient Monitor	ARGUS LCX	Schiller A.G	Switzerland/ France	13
72 alternative	Wall Mounted Patient Monitor	Dash 5000	GE Healthcare	North America (Mexico)	13
73	ECG (12 leads)	CARDIOVIT AT-102	Schiller A.G.	Switzerland	1
74	Critical Care Bed	ELEGANZA 3XC	Linet	Czech	8
75	I.C.U bed side cabinet & Over Bed table	ELEGANZA Classic	Linet	Czech	8
76	Critical Care Ventilator Adult/Pediatric	ICU-5000D	Penlon	UK	1
76 alternative	Critical Care Ventilator Adult/Pediatric	HAMILTON-C2	Hamilton	Switzerland	1
76 alternative	Critical Care Ventilator Adult/Pediatric	Engstrom Pro	GE Healthcare	USA	1
77	Critical Care Ventilator Neonates	HAMILTON-C2	Hamilton	Switzerland	1
77 alternative	Critical Care Ventilator Neonates	Engstrom Care Station.	GE Healthcare	USA	1
78	Kick buckets	Kick buckets	FAZZINI	Italy	8
79	Nurse stool	Nurse stool	FAZZINI	Italy	4
80	Oxygen mask - Adult	Silicone Universal Mask	O-TWO	Canada	2
81	Oxygen mask - pediatric	Silicone Toddler/Child Mask	O-TWO	Canada	2
82	Oxygen mask - infant	Silicone Infant Mask	O-TWO	Canada	2
83	Plastic chart holder	Plastic chart holder	FAZZINI	Italy	4
84	X-Ray viewer , double	X-Ray viewer , double	FAZZINI	Italy	3
85	BED urine female	BED urine female	FAZZINI	Italy	8
86	BED urine male	BED urine male	FAZZINI	Italy	8
87	Holder sack , free standing	Holder sack , free standing	FAZZINI	Italy	8
88	Stainless steel pedal waste Bin sanelia 20L	Stainless steel pedal waste Bin sanelia 20L	FAZZINI	Italy	8
89	Washer/Disinfector	Reliance® Synergy	Steris	USA	1
90	Washer Loading/ Unloading Accessories	Washer Loading Accessories	Steris	USA	2
91	Washer Loading/ Unloading Accessories	Washer Loading Accessories	Steris	USA	2
92	Washer Loading/ Unloading Accessories	Washer Loading Accessories	Steris	USA	16
93	Worktable	Amsco ss	Steris	USA	2
94	Clean up counter with 3 sink	Amsco clean up counter	Steris	USA	1
95	Pass thru Window	Pass thru Window	Steris	USA	1
96	Set-Down Counter	Set-Down Counter	Steris	USA	1
97	Steam Sterilizer Double Door (250 Liters)	Century	Steris	USA	1
97 alternative	Steam Sterilizer Single Door (250 Liters)	Century	Steris	USA	1





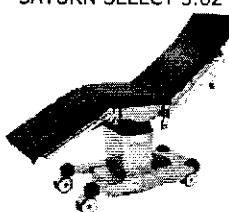
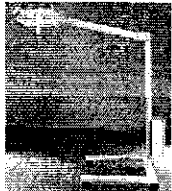

No.	Item name	Product	Production	Origin of Goods	Qty.
98	Sterilizers Loading Accessories	Sterilizers Loading Accessories	Steris	USA	1
98 alternative	Sterilizers Loading Accessories	Sterilizers Loading Accessories	Steris	USA	1
99	Leaflet Sealer	Leaflet Sealer	Steris	USA	1
100	Storage Shelves	Storage Shelves	METRO	USA	According to the approved design
101	Electromechanical Equipments	As per the enclosed sheet			
102	Medical gas Generators	As per the enclosed sheet			
103	Non-Medical Furniture	As per the enclosed sheet			
104	Training Program	As per the enclosed sheet			








صاله رقم 1: جراحة عامة

Room to Room Medical Equipments BoQ & Specs

جدول الكميات و المواصفات للأجهزة الطبية في الغرف








No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
1	Anesthesia Machine	Prima SP2 	Trolley Machine O2 / N2O Cylinder and O2 Pipeline, Cascade Flow meter with Mechanical AHD, Carbon Dioxide Absorber with Bag Vent and Bypass Heater, Color monitor of SIMV, PSUP, SMMV Spirometry O2 monitor remote screen , 2 vaporizers	Penlon/ UK	1
1 alternative	Anesthesia Machine	Aespire 7100 	Trolley Machine O2 / N2O Cylinder and O2 Pipeline, Cascade Flow meter with Mechanical AHD, Carbon Dioxide Absorber with Bag Vent and Bypass Heater, Color monitor of SIMV, PSUP, SMMV Spirometry O2 monitor remote screen , 2 vaporizers	GE Healthcare/ USA	1
2	Operating Table	SATURN SELECT 3.02 	Mobile operating table with longitudinal slide with electrically motorized adjustment of height, Trendelenburg/ anti-Trendelenburg and tilt, gas spring-assisted back section adjustment and manual longitudinal shift adjustment; two-part table top, with TRUMPF standard coupling points at head and MERKUR Plus coupling points at leg end, consists of seat and back section; column can be operated with either the cable or IR remote control. Maximum patient weight 225 kg.	Trumpf/ Germany	1
3	Mobile Surgical Light	TruLight 3300 Mobile 	Mobile LED Surgical Light, incl. transformer and mains cable, Sterilizable central handle, 3 pcs. Central Illuminance 100,000 Lux	Trumpf/ Germany	1
4	Surgical Light	TruLight 5500/ 5300/ vidiaPORT 2000 (with integrated camera) and TFT Monitor 19" 	LED Type light Main Surgical Ceiling light TruLight 5500 with Illumination of 150,000 Lux and LED Type Satellite Surgical Ceiling light TruLight 3500 with Illumination of 120,000 Lux. Integrated Camera SD7000 with 800,000 Pixel (PAL) resolution, 680,00 Pixel (NTSC) resolution, 25x optical zooming, Automatic/ Manual Focusing, Motorized picture rotation 360° & 19" TFT Monitor.	Trumpf/ Germany	1



No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
5	Mobile Examination Light	TruLight 1000 	Mobile LED Examination Light, incl. transformer and mains cable, Sterile Handle. Central Illuminance 50,000 Lux	Trumpf/ Germany	1
6	Major Operating Led Kalea 20+30	Included in item #4	Included in item #4		0
7	Electrosurgical Unit	ARC300e 	Height Frequency Generator with the following package: Accessories Set, 2.4mm including: 1x Electrode handle, reusable 1x Electrode set with container, reusable 1x Disposable spitted return plates 1x Connecting cable for disposable plates 1x Bipolar forceps, reusable 1x Connecting cable of bipolar forceps 1x Adapter for footswitched instruments 1x Reusable bipolar forceps, bayonet, 195mm Equipment trolley, Two-pedal footswitch	Bowa/ Germany	1
8	C-Arm	Arcovis 3000 S 	Arcovis 3000 S provides the perfect balance between image quality, ease of positioning and ergonomics, for use in the critical environment of the operating theatre. The perfect weight distribution of the C-arm and the motorised vertical travel make Arcovis 3000 the ideal solution for real time imaging in surgery. Smooth surfaces facilitate cleaning and disinfection of the unit, while the tubehead, Image intensifier and C-arm can be covered with easy to apply sterilizable drapes.	Villa Sistemi Medical S.p.A/ Italy or from EU origin	1
9	Automatic External Defibrillator Monitor	LIFEPAK® 20e 	Manual defibrillation mode 1-2-3 operation and Automated External Defibrillator with Shock Advisory System to advise operator when it detects a shockable rhythm. LCD color matrix screen display allows 1st. channels to be viewed ECG and 2nd. channel cascading ECG with up to 8 seconds of ECG. with Standard Detachable Hard Paddles Adult & Pediatric, and Lithium Ion rechargeable internal battery with battery level indicator.	Physio-Control / USA	1
10	Oxygen flowmeter	Included in Medical Gas Solution	Included in Medical Gas Solution		0
11	Oxygen humidifier	Included in Item #1	Included in Item #1		0
12	Air flowmeter	Included in Medical Gas Solution	Included in Medical Gas Solution		0
13	Regulator, Suction w/ Canister Set	Master45 	Suction capacity 45l/min., vacuum range 10 to 85kPa, Glass-Cylinder/Piston System, Casing with: carrying handle, fitting rail, vacuum meter and vacuum regulator, Hydrophobic bacterial filter (plus 10 spare filters), 2x2L suction jar	Ardo/ Switzerland	1


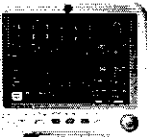







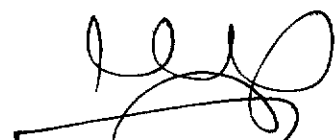












No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
14	Emergency manual resuscitator- adult	Adult Silicone Bag-Valve-Mask 	Adult Silicone Bag-Valve-Mask Resuscitator complete with Silicone Universal Resuscitation Mask and Oxygen Reservoir System	O-TWO/ Canada	1
15	Emergency manual resuscitator- infants	Child Silicone Bag-Valve-Mask 	Child Silicone Bag-Valve-Mask Resuscitator complete with Silicone Universal Resuscitation Mask and Oxygen Reservoir System	O-TWO/ Canada	1
16	Emergency manual resuscitator- neonates	Easy Grip® Silicone Bag-Valve-Mask 	Easy Grip® Silicone Bag-Valve-Mask Resuscitator Infant complete with Silicone Infant Resuscitation Mask & Oxygen Reservoir System in Cardboard Carton	O-TWO/ Canada	1
17	Medical Oxygen Cylinder	Medical Oxygen Cylinder 	Medical Oxygen Cylinder "D" Aluminum Cylinder with Toggle (415 Liters)	O-TWO/ Canada	1
		Medical Oxygen Regulator 	Medical Oxygen Regulator Brass Pin-Indexed Yoke with Therapy Flow 0 - 25 L/min, Barbed Outlet - with 2 x 9/16 Self-Sealing DISS Outlets Brass with British fast connector	O-TWO/ Canada	1
18	Diathermy	Included in Item #7	Included in Item #7		0
19	CO2 Laser for General Application			EU,USA or Japan	1
20	Blood Warmer	Included in Item #21	Included in Item #21		0
21	Blood and fluid accelerator	Level 1® H-1200 	Fast Flow Fluid Warmer with integrated Air Detector/Clamp, Aluminum heat exchanger, providing a constant 300mmHg pressure for rapid infusion	Smith Medical USA/	1
22	Anesthesia Vital Sign Monitor	M5 patient monitor 	Integrated module frame with 5 slots, Arrhythmia/ST segment analysis, 8 waveforms channel, 120 hours graphic/list trending, Network interface, Peripheral devices interface (4 USB ports), 1 Lithium-ion battery, 12.1" LCD with anti-glare screen, Including the following Parameters :3/5 ECG, respiration, dual channel temp., NIBP, dual channel IBP, SpO2 with Adult accessory kit. Mounted on the Anesthesia Machine.	Penlon/ UK	1













No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
22 alternative	Anesthesia Vital Sign Monitor	ARGUS LCX 	Light weight and small intermediate care patient monitor with bright 15" TFT screen and easy to- use interface by trim knob. For use with adult, pediatrics and neonatal Alarm monitoring on all parameters with Basic Arrhythmia Asystolie and V-Fibrillation Trend storage for 24 hours, with ECG, SpO2, NIBP, IBP and TEMP connection with Adult accessory kit. Mounted on the Anesthesia Machine.	Schiller A.G./ Switzerland/ France	1
22 alternative	Anesthesia Vital Sign Monitor	Dash 5000 	12" Display, Bedside w/GE Ohmeda SpO2 w/Hardwired Networking 1x ECG Cable 3/5 LD 3,6m , 1x 5/Lead Wire , 1x Nellcor Patient Cable , 1x Nellcor Compatible Finger Sensor , 1x Tubing adult/ paediatric , 1x Dura Cuf Adult Standard	GE Healthcare/ North America (Mexico)	1
23	Portable oxygen analyzer and monitor	Included in Item #22	Included in Item #22		0
24	Patient Warmer	HICO-Aquatherm 660 	Handling of HICO-AQUATHERM 660 is very simple and safe. The temperature of the warming mat can be adjusted by push-button from 35-39°C.	HIRTZ/ Germany	1
25	Portable pulse oxymeter	Included in Item #22	Included in Item #22		0
26	Argon plasma coagulator	Arc Plus 	Argon Purity 4.8 or better, Class 2.1 A . Gas input pressure 2.5-4.5 bar. Max. gas output pressure 2 bar. Continuous flow monitoring, fault indication with display of error number, hose blockage detection, continuous self-test, warning tone, continuous pressure monitoring at distal end.	Bowa/ Germany	1
27	Tens nerve stimulator	Stimuplex HNS12 	Ergonomic shape and large display. Digital ratchet control knob for precise and tactile current adjustment. Alarm screens and acoustic signals inform the user of relevant deviation. Instant set keys allow quick switching between stimulus current and impulse duration	Braun/ UK	1
28	Pressure cuff manometer for local anaesthesia	Included in Item #29	Included in Item #29		0
29	Automatic tourniquate with stand	SCT 2 	This machine has the facility to indicate both pre-select pressure and cuff pressure using the same gauge. The pre-select pressure is set before the operation, while the machine is in deflate, after the cuff has been applied to the patient and set to inflate the gauge will then indicate the actual cuff pressure throughout the operation.	Braun/ UK	1
30	Macintosh fiber optic Laryngoscope blade sizes 1, 2, 3	Macintosh fiber optic Laryngoscope 	STAND. F.O. LED LARYN.HAND.2.5V LED BATT.INSERT F.STAND. F.O. BOTTOM CAP F.STAND.F.O.LAR.HA. HANDLE SHELL F.STANDARD LAR.HA	Heine Germany	1



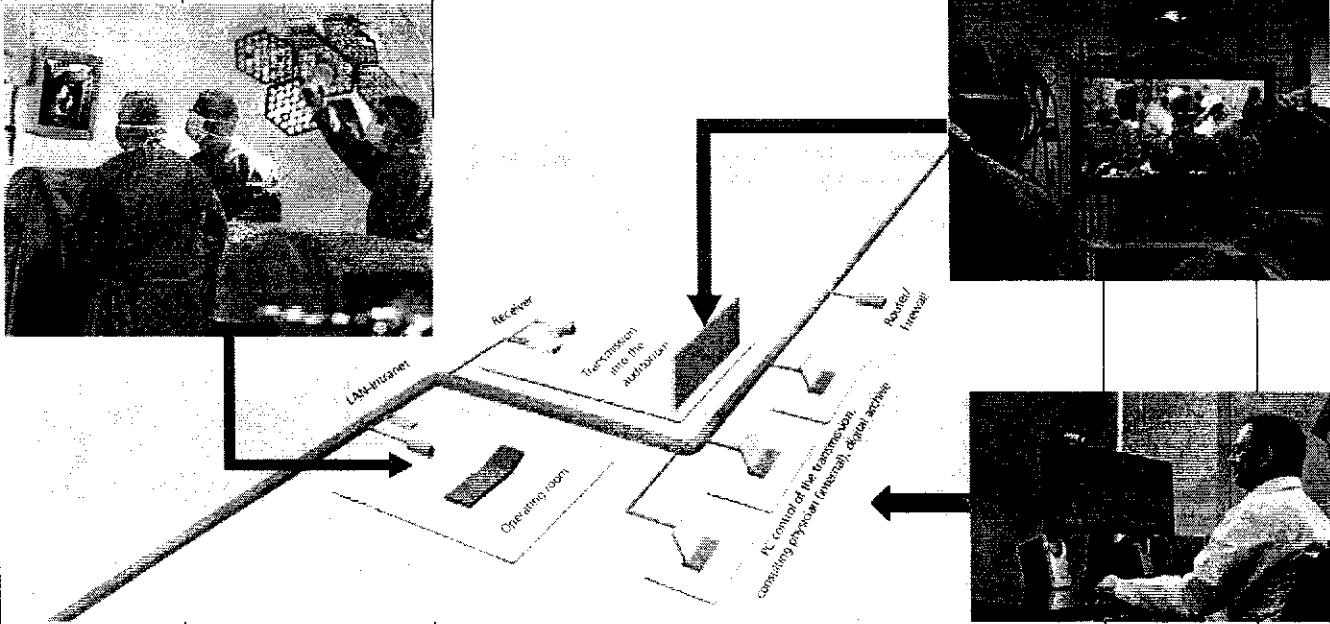
No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
31	MILLER F.O. BLADE size 0,1,2	MILLER F.O. BLADE 	MILLER F.O. BLADE size 0,1,2	Heine Germany	1
32	Infusion Pump, Single Channel	Graesby 3000 	Flowrate: 0.1-99.9 ml/hrs in 0.1ml increaments, 1-999 ml/hrs in 1ml increaments with occlusion pressure alarm.	Smith Medical/ UK	1
33	Infusion Pump, Syringe Anesthesia	Graesby 3100 	Flow rate: 0.1-199.9 ml/hrs in 0.1ml increments with battery operating time >3hrs under normal operating conditions.	Smith Medical USA/	1
34	Multipurpose cart	LifeLine Cart LECCRP2 	Multipurpose cart made of lightweight polymer crash/resuscitation carts. Incorporates Microban offering antimicrobial protection. Smooth rounded corners to allow for easier cleaning. Fitted with a single seal mechanism to secure the top compartment, drawers and side bins	METRO/ USA	1
35	Patient transfer bed	Included in Recovery Area item #1	Included in Recovery Area item #1		0
36	Anesthesia stool		Nurse stool/REVOLVING STOOL - Plastic base with 5 casters. Variable height from 43 to 55 cm. Stainless steel seat. Length mt: 0,48 Width mt: 0,65	FAZZINI/Italy	1
37	Surgeon stool		Nurse stool/REVOLVING STOOL - Plastic base with 5 casters. Variable height from 43 to 55 cm. Stainless steel seat. Length mt: 0,48 Width mt: 0,65	FAZZINI/Italy	1
38	Assistant surgeon stool		Nurse stool/REVOLVING STOOL - Plastic base with 5 casters. Variable height from 43 to 55 cm. Stainless steel seat. Length mt: 0,48 Width mt: 0,65	FAZZINI/Italy	1
39	Mayo table		MAYO TABLE - Stainless steel 18/10 construction, variable height, 4 castor base ø 50 mm. Removable stainless steel tray. Variable height from 74 to 104 cm.	FAZZINI/Italy	1
40	Instrument trolley		STAINLESS STEEL CARTS - Cart entirely made from glazed stainless steel AISI 304. The cart is particularly robust, handy, with removable shelves with raised edges to avoid spilling. N° SHELVES 2 - SWIVEL CASTERS 125 mm.	FAZZINI/Italy	1
41	Steel trolley with 2 trays	Included in item #40	Included in item #40		0
42	Trolley for 2 bags		SOILED LINEN TROLLEY - Chrome plated frame. Mounted on Ø 80 mm casters. Removable bag. Knock down construction. 2 Bags. Ø cm.	FAZZINI/Italy	1



No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
43	Single bowl stand		BOWL'S STAND - Constructed from chrome plated steel tube. Variable height. Stainless Steel bowl. STAINLESS STEEL BASE.	FAZZINI/Italy	1
44	Double bowl stand		BOWL'S STAND - Constructed from chrome plated steel tube. Variable height. Stainless Steel bowl. STAINLESS STEEL BASE.	FAZZINI/Italy	1
45	Mobile IV stand		Mobile IV stand/I.V. STAND ON CASTERS - Adjustable height from 160 to 220 cm. STAINLESS STEEL BASE - Foldable base with 5 casters. S.S. tube, 4 plastic hooks. Length mt: 1,17 Width mt: 0,32 Height mt: 0,14	FAZZINI/Italy	1
46	Two step foot stool		MOUNTING STEP - Chrome plated steel frame with plastic feet. Step covered with anti slip rubber. Knock down construction. 2 steps s.s.frame	FAZZINI/Italy	1
47	Waste plastic trolley		SOILED LINEN TROLLEY - Chrome plated frame. Mounted on Ø 80 mm casters. Removable bag. Knock down construction. 2 Bags. Ø cm. 46 x 95 h.	FAZZINI/Italy	1
48	Surgical Pendant	TruPort 7500 - 1865 AN 	Double Arms, 865 mm + 1000mm, Horizontal Swiveling with 2nd Arm Motor Driven Vertical Movement. (Tandem Prepared for future Upgrade) Upper and Middle Bearing with Pneumatic Brakes. Gas Outlets, Power Sockets, Data outlet Provision, 4xShelves, 1x drawer for lower shelf	Trumpf/ Germany	1
49	Anesthesia Pendant	TruPort 7500 - 1865 AN 	Double Arms, 865 mm + 1000mm, Horizontal Swiveling with 2nd Arm Motor Driven Vertical Movement. (Tandem Prepared for future Upgrade) Upper and Middle Bearing with Pneumatic Brakes. Gas Outlets, Power Sockets, Data outlet Provision Only, 1xShelf, 1xDrawer, 1x Equipment Adapter for Anesthesia Adapter Frame.	Trumpf/ Germany	1
50	Ambient ceiling light for operation room	Included in Item #4	Included in Item #4		0
51	Clock System	Included in item #54	Included in item #54		0
52	Bedsore Mattress	Ripple Air Mattress & Compressor 	The compressor pump features a control handle which makes pressure regulation easy. Air amount is adjustable to suit patient weight from 40 to 150 kg. Low noise, long lasting pump. AIR MATTRESS Size: 190x85 cm	Braun/ UK	1
53	IT Solution & Digital OR Environment	TruVidia SD7000 & i-Control	IT Solution & Digital OR Environment		1
		TruVidia SD7000	Integrated Communications Solution, Telemedicine, Cabled Network Streaming With Participants in The OR, The Physician's Office, and The Lecture Hall	Trumpf / Germany	



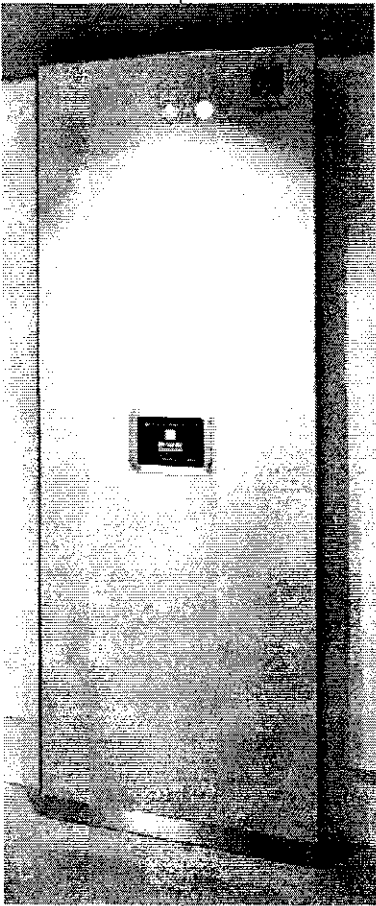


No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
			<ul style="list-style-type: none"> - This permits interactive cooperation between operating rooms and physician offices, additional clinics, universities and research laboratories. - The color camera technology is specially designed for TRUMPF TruLight Surgical lights either in the light heads or at separate carrying arm. The new 1/6" Super CCD camera incorporates a newly developed Serial Digital inter-face (SDI) for rapid, convenient transmission of digital video , a technological first in the field of surgical light camera systems. SDI is the preferred method for digital image routing, digital flat panel display and digital image capture and archiving in today's fully integrated all-digital operating rooms. Not only does SDI deliver the highest quality images, but it also allows the use of longer cable length without the use of expensive repeaters. - The innovative sterile operating concept at the surgical light head permits ergonomically work processes and supports an intuitive operation of the camera . - The special control software allows camera access via TCP/IP address. All camera functions could be controlled via existing hospital LAN. The newly developed digital still memory mode captures digital still images (720 X 582 PAL-720X482 NTSC) directly onto memory stick media for easy transfer to E-Mail, Printing, or sharing with compatible memory stick devices. - The highly sophisticated digital codec for digital video streaming via existing hospital LAN to store or transmit LIVE video sequences (MPEG 2 and MPEG 4) is available with a bi-directional audio transmission for telemedicine purpose. 		
			 <p>The diagram illustrates the telemedicine system architecture. It shows a central 'LAN-Internet' connection. On the left, an 'Operating room' is connected to a 'Receiver' and 'Transmission into the architecture'. On the right, a 'PC control of the transmission consisting physical (through) digital switch' is connected to a 'Router/Firewall' and 'Internet'. Three inset images are included: a surgical team in an operating room, a close-up of a surgical light head with a camera, and a physician at a computer workstation.</p>		


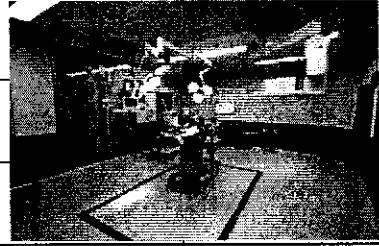
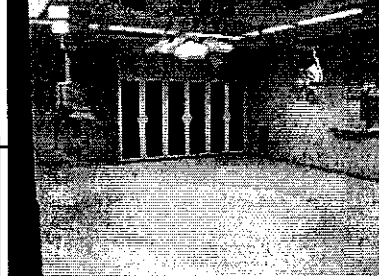

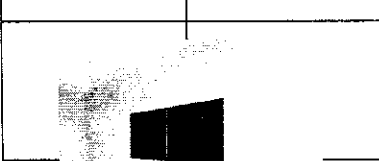

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No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
			<p>SDI - digital video quality: Besides the usual analogue video output (Y/C, FBAS), TruVidia also includes a digital video output in SDI format. SDI is the preferred method for digital video routing and for digital image capture and archiving in the SD range. So that while analogue signals can be sensitive to environmental influences, SDI gives you interference-free transmission even over longer distances.</p> <p>True-to-life image reproduction: After adjusting the color temperature, TruVidia automatically adapts to the new conditions without the need for you to perform a new white balance manually. This ensures natural, realistic color reproduction, and this can be sensed by the more reliability in consultations and remote diagnosis and more realistic images in the lecture hall or auditorium.</p> <p>Sterile operation of the most important functions: Whether you want to change the image framing or highlight and store details for archiving, with TruVidia you can activate the most important functions for these purposes directly from the control light, thus maintaining sterile conditions. The sterile OR team can make image framing corrections quickly and directly. Additional non-sterile staff is unnecessary.</p> <p>Fast, flexible data storage: To permit recording of snapshots during operation, TruVidia offers you an easy-to-use , flexible tool: Using the USB 2.0 interface integrated into the control unit, you can store data directly onto a USB flash memory stick. So that processing the data after the operation can be easily done directly on PC or laptop, without relying on a network, to prepare reports, presentations or e-mails.</p> <p>Specifications camera module TruVidia SD 7000: Resolution 800,000 Pixel (PAL), 680,00 Pixel (NTSC) Zoom 25x optical Lenses system F=2.4 mm (wide) to 60mm (tele), F1.6 to F2.7 Signal/ Noise Ratio 49 dB Electrical shutter 1/4 to 1/10.000s, 20 steps (NTSC) 1/3 to 1/10.000s , 20 steps(PAL) Horizontal resolution 470TV lines (NTSC), 460 TV lines(PAL) Min. Illumination 3.0 Lux(50 IRE) Image Stabilization Standard White balance Automatic/Manual Motorized picture rotation >360° Picture freeze Digital Auto Exposure (AE) Spot/Integral Focusing Automatic/Manual Gain Automatic/Manual (-3 to 28 dB, 16 Steps)</p> <p>Features MPEG Codes: - MJPEG/MPEG1/MPEG2/MPEG4/Div X 5.0 - 30FPS - Full Duplex Audio (bi-Directional) - DDNS Support</p>		




No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
			I/O connector : - EtroLink TM Interface - Digital I/O - RS-485 PTZ Camera Control - Audio and Output - 10/100 Mbps Ethernet Port		
		i-Control	<div>  </div> Control Unit Design: o A housing made of glass and stainless steel forms the box for the control and process visualization of complete areas or rooms. The control and display unit is equipped with the standard product from "Apple", the iPad. o iPhone can be added for medical educational conference calls. Usage o controlling o process visualization Components o Dimensions: Width 1000 mm, D 250 mm, Height 3000 mm o Body V2A grinded or powder coated o Socle V2A grinded or powder coated o Door ESG safety glass 6 mm with back painting / o stainless steel powder coated Features o iPad for visualization and operator terminal, iPad 16GB o Clock digital o Date with world receiver o Power saving mode room or area can be 100% 0% regulated energy consumption o Control (maximum data points 64, potential free contacts 32) Light and doors o Directly room lighting with dimming (Dali) o Doors / Blinds / Window o Door button all doors lock / unlock o optional all doors open and close individual o Blinds individual open / close adjustable rips o Warning light outside X-ray / laser o Disinfection complete locking of the room - Alarm o Gases up to 8 alarm enunciator o Ventilation fault fault indication of the atmospheric sensors o Filter fault Filter monitoring the supply air ceiling Stopwatch o Start / Stop / Reset standard function of the iPad	HT/ Germany	1
		IT infrastructure	- Desktop PC	as per the contract	1
			- Network infrastructure (Cabling & Switches).	as per the contract	Qty according to plan

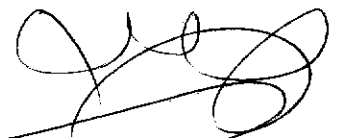


No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
54	Modular Room System	different	Modular Room System for the OR	HT/Germany	Qty according to plan
			WALL COVERING: Wall covering - stainless steel with plaster board core Wall covering is made stainless steel with 1 mm thickness and plaster board core with 18 mm thickness acc. to the room details, incl. sealing tape, joint profile and fastening parts, maximum joint width 8 mm; Panel width according to grid 1200 mm, lesser grids available one-piece panels up to the suspended ceiling. Powder-coating on wall panels for OT walls according to customer's choice.		
			ROOM VENTILATION - AIR CONDITION: Exhaust air cabinets Laminar flow system		
			OT secondary clock		
			CLEAN ROOM ILLUMINATORS		
			Ceiling: 1 mm galvanized metal coffered ceiling coated RAL 9010 white Module dimensions: 1.200 mm x 600 mm or 600 mm x 600 mm respectively		
			Flooring: Heavy Duty Vinyl Flooring and skirting. Skirting will be of PVC type skirting covered with backing filler and copping strip with welded joints.		
			OT-DOORS: Sliding door system (door frame surfaces and leaf made of stainless steel) Hinged door system (door frame surfaces and leaf made of stainless steel)		
			X-ray Viewing screen, 430 x 1200 mm		
			23" HD Monitor		







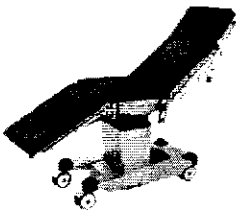

No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
			Pass-through cabinet system integrated in the wall 1.200x2.100x700mm		








صاله رقم 2: جراحة عامه ناظورية

Room to Room Medical Equipments BoQ & Specs




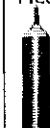




جدول الكميات و المواصفات للأجهزة الطبية في الغرف

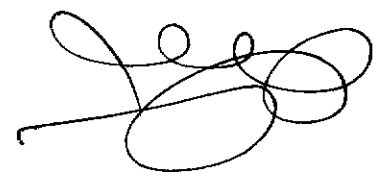
No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
1	Anesthesia Machine	Prima SP2 	Trolley Machine O2 / N2O Cylinder and O2 Pipeline, Cascade Flow meter with Mechanical AHD, Carbon Dioxide Absorber with Bag Vent and Bypass Heater, Color monitor of SIMV, PSUP, SMMV Spirometry O2 monitor remote screen , 2 vaporizers	Penlon/ UK	1
1 alternative	Anesthesia Machine	Aespire 7100 	Trolley Machine O2 / N2O Cylinder and O2 Pipeline, Cascade Flow meter with Mechanical AHD, Carbon Dioxide Absorber with Bag Vent and Bypass Heater, Color monitor of SIMV, PSUP, SMMV Spirometry O2 monitor remote screen , 2 vaporizers	GE Healthcare/ USA	1
2	Operating Table	SATURN SELECT 3.02 	Mobile operating table with longitudinal slide with electrically motorized adjustment of height, Trendelenburg/ anti-Trendelenburg and tilt, gas spring-assisted back section adjustment and manual longitudinal shift adjustment; two-part table top, with TRUMPF standard coupling points at head and MERKUR Plus coupling points at leg end, consists of seat and back section; column can be operated with either the cable or IR remote control. Maximum patient weight 225 kg.	Trumpf/ Germany	1
3	Mobile Surgical Light	TruLight 3300 Mobile 	Mobile LED Surgical Light, incl. transformer and mains cable, Sterilizable central handle, 3 pcs. Central Illuminance 100,000 Lux	Trumpf/ Germany	1










No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
4	Surgical Light	TruLight 5500/ 5300/ vidiPORT 2000 (with integrated camera) and TFT Monitor 19" 	LED Type light Main Surgical Ceiling light TruLight 5500 with Illumination of 150,000 Lux and LED Type Satellite Surgical Ceiling light TruLight 3500 with Illumination of 120,000 Lux. Integrated Camera SD7000 with 800,000 Pixel (PAL) resolution, 680,00 Pixel (NTSC) resolution, 25x optical zooming, Automatic/ Manual Focusing, Motorized picture rotation 360° & 19" TFT Monitor.	Trumpf/ Germany	1
5	Mobile Examination Light	TruLight 1000 	Mobile LED Examination Light, incl. transformer and mains cable, Sterile Handle. Central Illuminance 50,000 Lux	Trumpf/ Germany	1
6	Major Operating Led Kalea 20+30	Included in item #4	Included in item 4		0
7	Electrosurgical Unit	ARC300e 	Height Frequency Generator with the following package: Accessories Set, 2.4mm including: 1x Electrode handle, reusable 1x Electrode set with container, reusable 1x Disposable spitted return plates 1x Connecting cable for disposable plates 1x Bipolar forceps, reusable 1x Connecting cable of bipolar forceps 1x Adapter for footswitched instruments 1x Reusable bipolar forceps, bayonet, 195mm Equipment trolley, Two-pedal footswitch	Bowa/ Germany	1
8	Automatic External Defibrillator Monitor	LIFEPAK® 20e 	Manual defibrillation mode 1-2-3 operation and Automated External Defibrillator with Shock Advisory System to advise operator when it detects a shockable rhythm. LCD color matrix screen display allows 1st. channels to be viewed ECG and 2nd. channel cascading ECG with up to 8 seconds of ECG. with Standard Detachable Hard Paddles Adult & Pediatric, and Lithium Ion rechargeable internal battery with battery level indicator.	Physio-Control / USA	1
9	Oxygen flowmeter	Included in Medical Gas Solution	Included in Medical Gas Solution		0
10	Oxygen humidifier	Included in Item #1	Included in Item #1		0
11	Air flowmeter	Included in Medical Gas Solution	Included in Medical Gas Solution		0
12	Regulator, Suction w/ Canister Set	Master45 	Suction capacity 45l/min., vacuum range 10 to 85kPa, Glass-Cylinder/Piston System, Casing with: carrying handle, fitting rail, vacuum meter and vacuum regulator, Hydrophobic bacterial filter (plus 10 spare filters), 2x2L suction jar	Ardo/ Switzerland	1














No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
13	Emergency manual resuscitator- adult	Adult Silicone Bag-Valve-Mask 	Adult Silicone Bag-Valve-Mask Resuscitator complete with Silicone Universal Resuscitation Mask and Oxygen Reservoir System	O-TWO/ Canada	1
14	Emergency manual resuscitator- infants	Child Silicone Bag-Valve-Mask 	Child Silicone Bag-Valve-Mask Resuscitator complete with Silicone Universal Resuscitation Mask and Oxygen Reservoir System	O-TWO/ Canada	1
15	Emergency manual resuscitator- neonates	Easy Grip® Silicone Bag-Valve-Mask 	Easy Grip® Silicone Bag-Valve-Mask Resuscitator Infant complete with Silicone Infant Resuscitation Mask & Oxygen Reservoir System in Cardboard Carton	O-TWO/ Canada	1
16	Medical Oxygen Cylinder	Medical Oxygen Cylinder 	Medical Oxygen Cylinder "D" Aluminum Cylinder with Toggle (415 Liters)	O-TWO/ Canada	1
		Medical Oxygen Regulator 	Medical Oxygen Regulator Brass Pin-Indexed Yoke with Therapy Flow 0 - 25 L/min, Barbed Outlet - with 2 x 9/16 Self-Sealing DISS Outlets Brass with British fast connector	O-TWO/ Canada	1
17	Diathermy	Included in Item #7	Included in Item #7		0
18	CO2 Laser for Special Application			EU,USA or japan	1
19	Blood Warmer	Included in Item #20	Included in Item #20		0
20	Blood and fluid accelerator	Level 1® H-1200 	Fast Flow Fluid Warmer with integrated Air Detector/Clamp, Aluminum heat exchanger, providing a constant 300mmHg pressure for rapid infusion	Smith Medical USA/	1
21	Anesthesia Vital Sign Monitor	M5 patient monitor 	Integrated module frame with 5 slots, Arrhythmia/ST segment analysis, 8 waveforms channel, 120 hours graphic/list trending, Network interface, Peripheral devices interface (4 USB ports), 1 Lithium-ion battery, 12.1" LCD with anti-glare screen, Including the following Parameters :3/5 ECG, respiration, dual channel temp., NIBP, dual channel IBP, SpO2 with Adult accessory kit. Mounted on the Anesthesia Machine.	Penlon/ UK	1
21 alternative	Anesthesia Vital Sign Monitor	ARGUS LCX 	Light weight and small intermediate care patient monitor with bright 15" TFT screen and easy to- use interface by trim knob. For use with adult, pediatrics and neonatal Alarm monitoring on all parameters with Basic Arrhythmia Asystolie and V-Fibrillation Trend storage for 24 hours, with ECG, SpO2, NIBP, IBP and TEMP connection with Adult accessory kit. Mounted on the Anesthesia Machine.	Schiller A.G./ Switzerland/ France	1









No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
21 alternative	Anesthesia Vital Sign Monitor	Dash 5000 	12" Display, Bedside w/GE Ohmeda SpO2 w/Hardwired Networking 1x ECG Cable 3/5 LD 3,6m , 1x 5/Lead Wire , 1x Nellcor Patient Cable , 1x Nellcor Compatible Finger Sensor , 1x Tubing adult/ paediatric , 1x Dura Cuf Adult Standard	GE Healthcare/ North America (Mexico)	1
22	Portable oxygen analyzer and monitor	Included in Item #21	Included in Item #21		0
23	Patient Warmer	HICO-Aquatherm 660 	Handling of HICO-AQUATHERM 660 is very simple and safe. The temperature of the warming mat can be adjusted by push-button from 35-39°C.	HIRTZ/ Germany	1
24	Portable pulse oxymeter	Included in Item #21	Included in Item #21		0
25	Argon plasma coagulator	Arc Plus 	Argon Purity 4.8 or better, Class 2.1 A . Gas input pressure 2.5-4.5 bar. Max. gas output pressure 2 bar. Continuous flow monitoring, fault indication with display of error number, hose blockage detection, continuous self-test, warning tone, continuous pressure monitoring at distal end.	Bowa/ Germany	1
26	Tens nerve stimulator	Stimuplex HNS12 	Ergonomic shape and large display. Digital ratchet control knob for precise and tactile current adjustment. Alarm screens and acoustic signals inform the user of relevant deviation. Instant set keys allow quick switching between stimulus current and impulse duration	Braun/ UK	1
27	Pressure cuff manometer for local anaesthesia	Included in Item #28	Included in Item #28		
28	Automatic tourniquate with stand	SCT 2 	This machine has the facility to indicate both pre-select pressure and cuff pressure using the same gauge. The pre-select pressure is set before the operation, while the machine is in deflate, after the cuff has been applied to the patient and set to inflate the gauge will then indicate the actual cuff pressure throughout the operation.	Braun/ UK	1
29	Macintosh fiber optic Laryngoscope blade sizes 1, 2, 3 & 4	Macintosh fiber optic Laryngoscope 	STAND. F.O. LED LARYN.HAND.2.5V LED BATT.INSERT F.STAND. F.O. BOTTOM CAP F.STAND.F.O.LAR.HA. HANDLE SHELL F.STANDARD LAR.HA MAC BLADE MODULE, METAL size 1,2,3,4	Heine Germany	1
30	MILLER F.O. BLADE size 0,1,2	MILLER F.O. BLADE 	MILLER F.O. BLADE size 0,1,2	Heine Germany	1



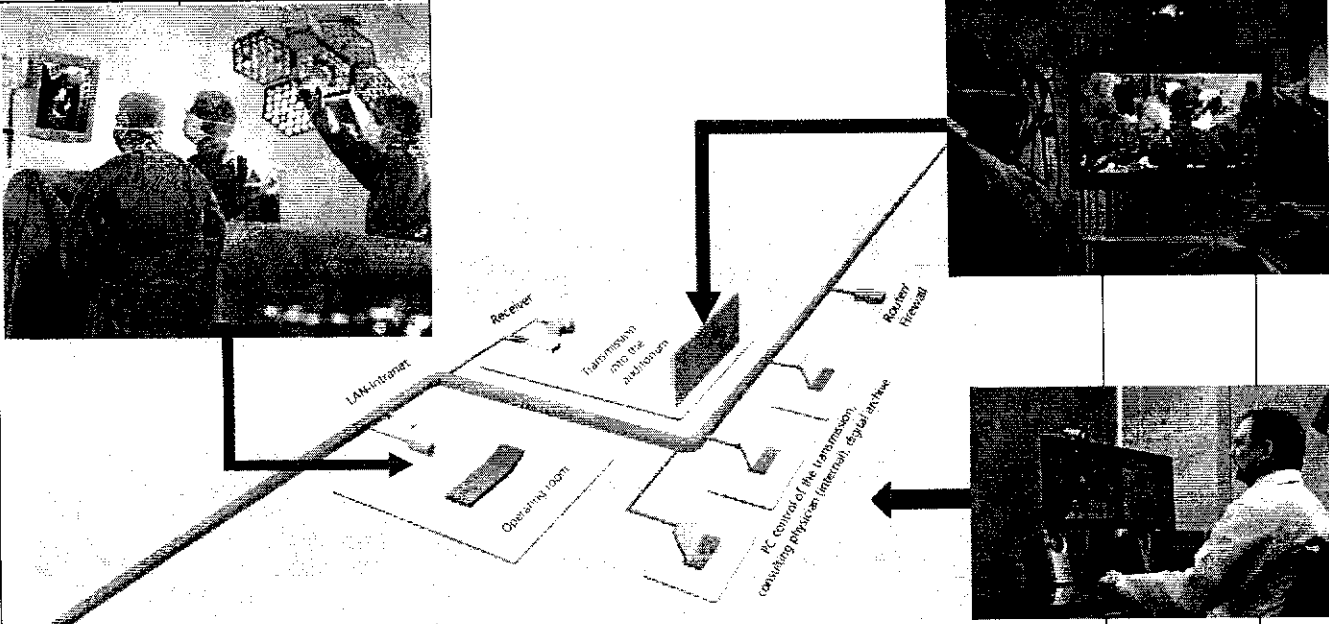
No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
31	Infusion Pump, Single Channel	Graesby 3000 	Flowrate: 0.1-99.9 ml/hrs in 0.1ml increaments, 1-999 ml/hrs in 1ml increaments with occlusion pressure alarm.	Smith Medical/ UK	1
32	Infusion Pump, Syringe Anesthesia	Graesby 3100 	Flow rate: 0.1-199.9 ml/hrs in 0.1ml increments with battery operating time >3hrs under normal operating conditions.	Smith Medical USA/	1
33	Multipurpose cart	LifeLine Cart LECCRP2 	Multipurpose cart made of lightweight polymer crash/resuscitation carts. Incorporates Microban offering antimicrobial protection. Smooth rounded corners to allow for easier cleaning. Fitted with a single seal mechanism to secure the top compartment, drawers and side bins	METRO/ USA	1
34	patient transfer bed	Included in Recovery Area item #1	Included in Recovery Area item #1		0
35	Anesthesia stool		Nurse stool/REVOLVING STOOL - Plastic base with 5 casters. Variable height from 43 to 55 cm. Stainless steel seat. Length mt: 0,48 Width mt: 0,65	FAZZINI/Italy	1
36	Surgeon stool		Nurse stool/REVOLVING STOOL - Plastic base with 5 casters. Variable height from 43 to 55 cm. Stainless steel seat. Length mt: 0,48 Width mt: 0,65	FAZZINI/Italy	1
37	Assistant surgeon stool		Nurse stool/REVOLVING STOOL - Plastic base with 5 casters. Variable height from 43 to 55 cm. Stainless steel seat. Length mt: 0,48 Width mt: 0,65	FAZZINI/Italy	1
38	Mayo table		MAYO TABLE - Stainless steel 18/10 construction, variable height, 4 castor base ø 50 mm. Removable stainless steel tray. Variable height from 74 to 104 cm.	FAZZINI/Italy	1
39	Instrument trolley		STAINLESS STEEL CARTS - Cart entirely made from glazed stainless steel AISI 304. The cart is particularly robust, handy, with removable shelves with raised edges to avoid spilling. N° SHELVES 2 - SWIVEL CASTERS 125 mm.	FAZZINI/Italy	1
40	Steel trolley with 2 trays	Included in item #40	Included in item #39		0
41	Trolley for 2 bags		SOILED LINEN TROLLEY - Chrome plated frame. Mounted on Ø 80 mm casters. Removable bag. Knock down construction. 2 Bags. Ø cm. 46 x 95 h.	FAZZINI/Italy	1
42	Single bowl stand		BOWL'S STAND - Constructed from chrome plated steel tube. Variable height. Stainless Steel bowl. STAINLESS STEEL BASE.	FAZZINI/Italy	1
43	Double bowl stand		BOWL'S STAND - Constructed from chrome plated steel tube. Variable height. Stainless Steel bowl. STAINLESS STEEL BASE.	FAZZINI/Italy	1



No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
44	Mobile IV stand		Mobile IV stand/I.V. STAND ON CASTERS - Adjustable height from 160 to 220 cm. STAINLESS STEEL BASE - Foldable base with 5 casters. S.S. tube, 4 plastic hooks. Length mt: 1,17 Width mt: 0,32 Height mt: 0,14	FAZZINI/Italy	1
45	Two step foot stool		MOUNTING STEP - Chrome plated steel frame with plastic feet. Step covered with anti slip rubber. Knock down construction. 2 steps s.s.frame	FAZZINI/Italy	1
46	Waste plastic trolley		SOILED LINEN TROLLEY - Chrome plated frame. Mounted on Ø 80 mm casters. Removable bag. Knock down construction. 2 Bags. Ø cm. 46 x 95 h.	FAZZINI/Italy	1
47	Surgical Pendant	TruPort 7500 - 1865 AN 	Double Arms, 865 mm + 1000mm, Horizontal Swiveling with 2nd Arm Motor Driven Vertical Movement. (Tandem Prepared for future Upgrade) Upper and Middle Bearing with Pneumatic Brakes. Gas Outlets, Power Sockets, Data outlet Provision, 4xShelves, 1x drawer for lower shelf	Trumpf/ Germany	1
48	Anesthesia Pendant	TruPort 7500 - 1865 AN 	Double Arms, 865 mm + 1000mm, Horizontal Swiveling with 2nd Arm Motor Driven Vertical Movement. (Tandem Prepared for future Upgrade) Upper and Middle Bearing with Pneumatic Brakes. Gas Outlets, Power Sockets, Data outlet Provision Only, 1xShelf, 1xDrawer, 1x Equipment Adapter for Anesthesia Adapter Frame.	Trumpf/ Germany	1
49	Ambient ceiling light for operation room	Included in Item #4	Included in Item #4		0
50	Clock System	Included in item #54	Included in item #54		0
51	Bedsore Mattress	Ripple Air Mattress & Compressor 	The compressor pump features a control handle which makes pressure regulation easy. Air amount is adjustable to suit patient weight from 40 to 150 kg. Low noise, long lasting pump. AIR MATTRESS Size: 190x85 cm	Braun/ UK	1
52	Laposcopic unit	Laposcopic System	Tower includes: control unit, camera, light sources, monitor, CO2 insufflator, laparoscopes, Laparoscopic Suction / Irrigation System, mobile cart.	Stryker/USA or from EU origin.	1
53	IT Solution & Digital OR Environment	TruVidia SD7000 & i-Control	IT Solution & Digital OR Environment		1
		TruVidia SD7000	Integrated Communications Solution, Telemedicine, Cabled Network Streaming With Participants in The OR, The Physician's Office, and The Lecture Hall - As an integrated communications solution, telemedicine connects important internal and external interfaces used in the day-to-day operation of clinics.	Trumpf / Germany	





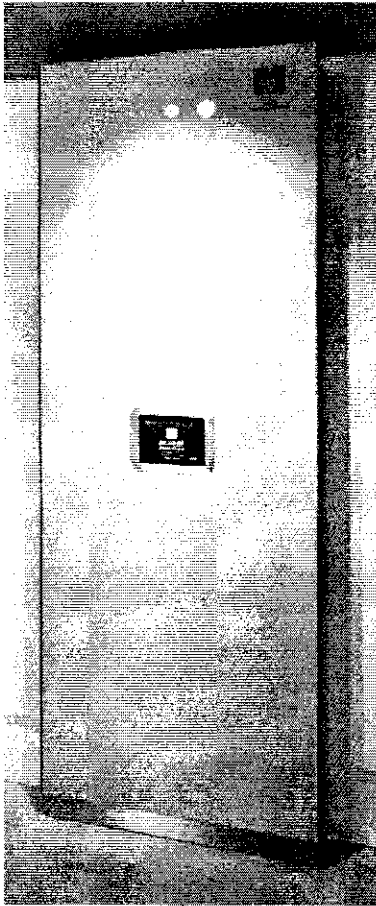
No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
			<ul style="list-style-type: none">- This permits interactive cooperation between operating rooms and physician offices, additional clinics, universities and research laboratories.- The color camera technology is specially designed for TRUMPF TruLight Surgical lights either in the light heads or at separate carrying arm. The new 1/6" Super CCD camera incorporates a newly developed Serial Digital inter-face (SDI) for rapid, convenient transmission of digital video , a technological first in the field of surgical light camera systems. SDI is the preferred method for digital image routing, digital flat panel display and digital image capture and archiving in today's fully integrated all-digital operating rooms. Not only does SDI deliver the highest quality images, but it also allows the use of longer cable length without the use of expensive repeaters.- The innovative sterile operating concept at the surgical light head permits ergonomically work processes and supports an intuitive operation of the camera .- The special control software allows camera access via TCP/IP address. All camera functions could be controlled via existing hospital LAN. The newly developed digital still memory mode captures digital still images (720 X 582 PAL-720X482 NTSC) directly onto memory stick media for easy transfer to E-Mail, Printing, or sharing with compatible memory stick devices.- The highly sophisticated digital codec for digital video streaming via existing hospital LAN to store or transmit LIVE video sequences (MPEG 2 and MPEG 4) is available with a bi-directional audio transmission for telemedicine purpose.		
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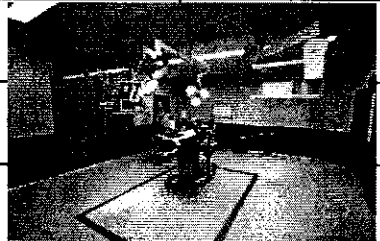
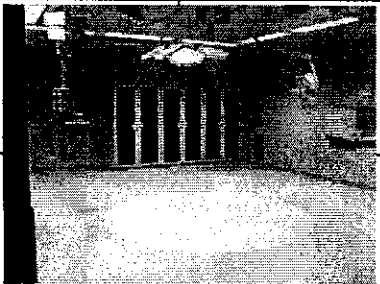
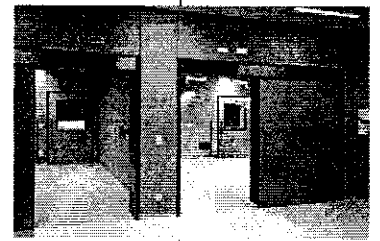
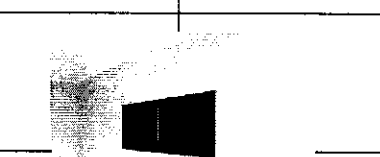

No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
			<p>SDI - digital video quality: Besides the usual analogue video output (Y/C, FBAS), TruVidia also includes a digital video output in SDI format. SDI is the preferred method for digital video routing and for digital image capture and archiving in the SD range. So that while analogue signals can be sensitive to environmental influences, SDI gives you interference-free transmission even over longer distances.</p> <p>True-to-life image reproduction: After adjusting the color temperature, TruVidia automatically adapts to the new conditions without the need for you to perform a new white balance manually. This ensures natural, realistic color reproduction, and this can be sensed by the more reliability in consultations and remote diagnosis and more realistic images in the lecture hall or auditorium.</p> <p>Sterile operation of the most important functions: Whether you want to change the image framing or highlight and store details for archiving, with TruVidia you can activate the most important functions for these purposes directly from the control light, thus maintaining sterile conditions. The sterile OR team can make image framing corrections quickly and directly. Additional non-sterile staff is unnecessary.</p> <p>Fast, flexible data storage: To permit recording of snapshots during operation, TruVidia offers you an easy-to-use , flexible tool: Using the USB 2.0 interface integrated into the control unit, you can store data directly onto a USB flash memory stick. So that processing the data after the operation can be easily done directly on PC or laptop, without relying on a network, to prepare reports, presentations or e-mails.</p> <p>Specifications camera module TruVidia SD 7000: Resolution 800,000 Pixel (PAL), 680,00 Pixel (NTSC) Zoom 25x optical Lenses system F=2.4 mm (wide) to 60mm (tele), F1.6 to F2.7 Signal/ Noise Ratio 49 dB Electrical shutter 1/4 to 1/10.000s, 20 steps (NTSC) 1/3 to 1/10.000s ,, 20 steps(PAL) Horizontal resolution 470TV lines (NTSC), 460 TV lines(PAL) Min. Illumination 3.0 Lux(50 IRE) Image Stabilization Standard White balance Automatic/Manual Motorized picture rotation >360° Picture freeze Digital Auto Exposure (AE) Spot/Integral Focusing Automatic/Manual Gain Automatic/Manual (-3 to 28 dB, 16 Steps)</p> <p>Features MPEG Codes: - MJPEG/MPEG1/MPEG2/MPEG4/Div X 5.0 - 30FPS - Full Duplex Audio (bi-Directional) - DDNS Support</p>		



No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
			I/O connector : - EtroLink TM Interface - Digital I/O - RS-485 PTZ Camera Control - Audio and Output - 10/100 Mbps Ethernet Port		
		i-Control	<div>  </div> Control Unit Design: o A housing made of glass and stainless steel forms the box for the control and process visualization of complete areas or rooms. The control and display unit is equipped with the standard product from "Apple", the iPad. o iPhone can be added for medical educational conference calls. Usage o controlling o process visualization Components o Dimensions: Width 1000 mm, D 250 mm, Height 3000 mm o Body V2A grinded or powder coated o Socle V2A grinded or powder coated o Door ESG safety glass 6 mm with back painting / o stainless steel powder coated Features o iPad for visualization and operator terminal, iPad 16GB o Clock digital o Date with world receiver o Power saving mode room or area can be 100% 0% regulated energy consumption o Control (maximum data points 64, potential free contacts 32) Light and doors o Directly room lighting with dimming (Dali) o Doors / Blinds / Window o Door button all doors lock / unlock o optional all doors open and close individual o Blinds individual open / close adjustable rips o Warning light outside X-ray / laser o Disinfection complete locking of the room - Alarm o Gases up to 8 alarm enunciator o Ventilation fault fault indication of the atmospheric sensors o Filter fault Filter monitoring the supply air ceiling Stopwatch o Start / Stop / Reset standard function of the iPad	HT/ Germany	1
		IT infrastructure	- Desktop PC	as per the contract	1
			- Network infrastructure (Cabling & Switches).	as per the contract	Qty according to plan






No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
54	Modular Room System	different	Modular Room System for the OR	HT/Germany	Qty according to plan
			WALL COVERING: Wall covering - stainless steel with plaster board core Wall covering is made stainless steel with 1 mm thickness and plaster board core with 18 mm thickness acc. to the room details, incl. sealing tape, joint profile and fastening parts, maximum joint width 8 mm; Panel width according to grid 1200 mm, lesser grids available one-piece panels up to the suspended ceiling. Powder-coating on wall panels for OT walls according to customer's choice.		
			ROOM VENTILATION - AIR CONDITION: Exhaust air cabinets Laminar flow system		
			OT secondary clock		
			CLEAN ROOM ILLUMINATORS		
			Ceiling: 1 mm galvanized metal coffered ceiling coated RAL 9010 white Module dimensions: 1.200 mm x 600 mm or 600 mm x 600 mm respectively		
			Flooring: Heavy Duty Vinyl Flooring and skirting. Skirting will be of PVC type skirting coved with backing filler and copping strip with welded joints.		
			OT-DOORS: Sliding door system (door frame surfaces and leaf made of stainless steel) Hinged door system (door frame surfaces and leaf made of stainless steel)		
			X-ray Viewing screen, 430 x 1200 mm		
			23" HD Monitor		







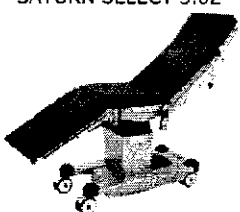
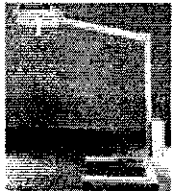

No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
			Pass-through cabinet system integrated in the wall 1.200x2.100x700mm		









صالة رقم 3: جراحة تداخل ناظوري هضمي

Room to Room Medical Equipments BoQ & Specs








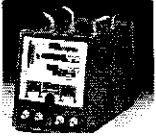
جدول الكميات و المواصفات للأجهزة الطبية في الغرف

No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
1	Anesthesia Machine	Prima SP2 	Trolley Machine O2 / N2O Cylinder and O2 Pipeline, Cascade Flow meter with Mechanical AHD, Carbon Dioxide Absorber with Bag Vent and Bypass Heater, Color monitor of SIMV, PSUP, SMMV Spirometry O2 monitor remote screen , 2 vaporizers	Penlon/ UK	1
1 alternative	Anesthesia Machine	Aespire 7100 	Trolley Machine O2 / N2O Cylinder and O2 Pipeline, Cascade Flow meter with Mechanical AHD, Carbon Dioxide Absorber with Bag Vent and Bypass Heater, Color monitor of SIMV, PSUP, SMMV Spirometry O2 monitor remote screen , 2 vaporizers	GE Healthcare/ USA	1
2	Operating Table	SATURN SELECT 3.02 	Mobile operating table with longitudinal slide with electrically motorized adjustment of height, Trendelenburg/ anti-Trendelenburg and tilt, gas spring-assisted back section adjustment and manual longitudinal shift adjustment; two-part table top, with TRUMPF standard coupling points at head and MERKUR Plus coupling points at leg end, consists of seat and back section; column can be operated with either the cable or IR remote control. Maximum patient weight 225 kg.	Trumpf/ Germany	1
3	Mobile Surgical Light	TruLight 3300 Mobile 	Mobile LED Surgical Light, incl. transformer and mains cable, Sterilizable central handle, 3 pcs. Central Illuminance 100,000 Lux	Trumpf/ Germany	1
4	Surgical Light	TruLight 5500/ 5300/ vidiaPORT 2000 (with integrated camera) and TFT Monitor 19" 	LED Type light Main Surgical Ceiling light TruLight 5500 with Illumination of 150,000 Lux and LED Type Satellite Surgical Ceiling light TruLight 3500 with Illumination of 120,000 Lux. Integrated Camera SD7000 with 800,000 Pixel (PAL) resolution, 680,00 Pixel (NTSC) resolution, 25x optical zooming, Automatic/ Manual Focusing, Motorized picture rotation 360° & 19" TFT Monitor.	Trumpf/ Germany	1











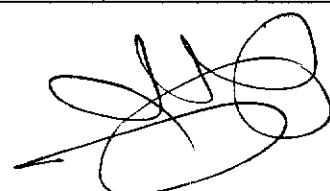
No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
5	Mobile Examination Light	TruLight 1000 	Mobile LED Examination Light, incl. transformer and mains cable, Sterile Handle. Central Illuminance 50,000 Lux	Trumpf/ Germany	1
6	Major Operating Led Kalea 20+30	Included in item #4	Included in item # 4		0
7	Electrosurgical Unit	ARC300e 	Height Frequency Generator with the following package: Accessories Set, 2.4mm including: 1x Electrode handle, reusable 1x Electrode set with container, reusable 1x Disposable spitted return plates 1x Connecting cable for disposable plates 1x Bipolar forceps, reusable 1x Connecting cable of bipolar forceps 1x Adapter for footswitched instruments 1x Reusablebipolarforceps,bayonet,195mm Equipment trolley, Two-pedal footswitch	Bowa/ Germany	1
8	Automatic External Defibrillator Monitor	LIFEPAK® 20e 	Manual defibrillation mode 1-2-3 operation and Automated External Defibrillator with Shock Advisory System to advise operator when it detects a shockable rhythm. LCD color matrix screen display allows 1st. channels to be viewed ECG and 2nd. channel cascading ECG with up to 8 seconds of ECG. with Standard Detachable Hard Paddles Adult & Pediatric, and Lithium Ion rechargeable internal battery with battery level indicator.	Physio-Control / USA	1
9	Oxygen flowmeter	Included in Medical Gas Solution	Included in Medical Gas Solution		0
10	Oxygen humidifier	Included in Item #1	Included in Item #1		0
11	Air flowmeter	Included in Medical Gas Solution	Included in Medical Gas Solution		0
12	Regulator, Suction w/ Canister Set	Master45 	Suction capacity 45l/min., vacuum range 10 to 85kPa, Glass-Cylinder/Piston System, Casing with: carrying handle, fitting rail, vacuum meter and vacuum regulator, Hydrophobic bacterial filter (plus 10 spare filters), 2x2L suction jar	Ardo/ Switzerland	1
13	Emergency manual resuscitator- adult	Adult Silicone Bag-Valve-Mask 	Adult Silicone Bag-Valve-Mask Resuscitator complete with Silicone Universal Resuscitation Mask and Oxygen Reservoir System	O-TWO/ Canada	1
14	Emergency manual resuscitator- infants	Child Silicone Bag-Valve-Mask 	Child Silicone Bag-Valve-Mask Resuscitator complete with Silicone Universal Resuscitation Mask and Oxygen Reservoir System	O-TWO/ Canada	1









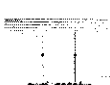




No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
15	Emergency manual resuscitator-neonates	Easy Grip® Silicone Bag-Valve-Mask 	Easy Grip® Silicone Bag-Valve-Mask Resuscitator Infant complete with Silicone Infant Resuscitation Mask & Oxygen Reservoir System in Cardboard Carton	O-TWO/ Canada	1
16	Medical Oxygen Cylinder	Medical Oxygen Cylinder 	Medical Oxygen Cylinder "D" Aluminum Cylinder with Toggle (415 Liters)	O-TWO/ Canada	1
		Medical Oxygen Regulator 	Medical Oxygen Regulator Brass Pin-Indexed Yoke with Therapy Flow 0 - 25 L/min, Barbed Outlet - with 2 x 9/16 Self-Sealing DISS Outlets Brass with British fast connector	O-TWO/ Canada	1
17	Diathermy	Included in Item #7	Included in Item #7		0
18	Blood Warmer	Included in Item #19	Included in Item #19		0
19	Blood and fluid accelerator	Level 1® H-1200 	Fast Flow Fluid Warmer with integrated Air Detector/Clamp, Aluminum heat exchanger, providing a constant 300mmHg pressure for rapid infusion	Smith Medical USA/	1
20	Anesthesia Vital Sign Monitor	M5 patient monitor 	Integrated module frame with 5 slots, Arrhythmia/ST segment analysis, 8 waveforms channel, 120 hours graphic/list trending, Network interface, Peripheral devices interface (4 USB ports), 1 Lithium-ion battery, 12.1" LCD with anti-glare screen, Including the following Parameters :3/5 ECG, respiration, dual channel temp., NIBP, dual channel IBP, SpO2 with Adult accessory kit. Mounted on the Anesthesia Machine.	Penlon/ UK	1
20 alternative	Anesthesia Vital Sign Monitor	ARGUS LCX 	Light weight and small intermediate care patient monitor with bright 15" TFT screen and easy to- use interface by trim knob. For use with adult, pediatrics and neonatal Alarm monitoring on all parameters with Basic Arrhythmia Asystole and V-Fibrillation Trend storage for 24 hours, with ECG, SpO2, NIBP, IBP and TEMP connection with Adult accessory kit. Mounted on the Anesthesia Machine.	Schiller A.G./ Switzerland/ France	1
20 alternative	Anesthesia Vital Sign Monitor	Dash 5000 	12" Display, Bedside w/GE Ohmeda SpO2 w/Hardwired Networking 1x ECG Cable 3/5 LD 3,6m , 1x 5/Lead Wire , 1x Nellcor Patient Cable , 1x Nellcor Compatible Finger Sensor , 1x Tubing adult/ paediatric , 1x Dura Cuf Adult Standard	GE Healthcare/ North America (Mexico)	1
21	Portable oxygen analyzer and monitor	Included in Item #20	Included in Item #20		0
22	Patient Warmer	HICO-Aquatherm 660 	Handling of HICO-AQUATHERM 660 is very simple and safe. The temperature of the warming mat can be adjusted by push-button from 35-39°C.	HIRTZ/ Germany	1






No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
23	Portable pulse oxymeter	Included in Item #21	Included in Item #21		0
24	Argon plasma coagulator	Arc Plus 	Argon Purity 4.8 or better, Class 2.1 A . Gas input pressure 2.5-4.5 bar. Max. gas output pressure 2 bar. Continuous flow monitoring, fault indication with display of error number, hose blockage detection, continuous self-test, warning tone, continuous pressure monitoring at distal end.	Bowa/ Germany	1
25	Tens nerve stimulator	Stimuplex HNS12 	Ergonomic shape and large display. Digital ratchet control knob for precise and tactile current adjustment. Alarm screens and acoustic signals inform the user of relevant deviation. Instant set keys allow quick switching between stimulus current and impulse duration	Braun/ UK	1
26	Pressure cuff manometer for local anaesthesia	Included in Item #27	Included in Item #27		0
27	Automatic tourniquate with stand	SCT 2 	This machine has the facility to indicate both pre-select pressure and cuff pressure using the same gauge. The pre-select pressure is set before the operation, while the machine is in deflate, after the cuff has been applied to the patient and set to inflate the gauge will then indicate the actual cuff pressure throughout the operation.	Braun/ UK	1
28	Macintosh fiber optic Laryngoscope blade sizes 1, 2, 3 & 4	Macintosh fiber optic Laryngoscope 	STAND. F.O. LED LARYN.HAND.2.5V LED BATT.INSERT F.STAND. F.O. BOTTOM CAP F.STAND.F.O.LAR.HA. HANDLE SHELL F.STANDARD LAR.HA MAC BLADE MODULE, METAL size 1,2,3,4	Heine Germany	1
29	MILLER F.O. BLADE size 0,1,2	MILLER F.O. BLADE 	MILLER F.O. BLADE size 0,1,2	Heine Germany	1
30	Infusion Pump, Single Channel	Graesby 3000 	Flowrate: 0.1-99.9 ml/hrs in 0.1ml increments, 1-999 ml/hrs in 1ml increments with occlusion pressure alarm.	Smith Medical/ UK	1
31	Infusion Pump, Syringe Anesthesia	Graesby 3100 	Flow rate: 0.1-199.9 ml/hrs in 0.1ml increments with battery operating time >3hrs under normal operating conditions.	Smith Medical USA/	1
32	Multipurpose cart	LifeLine Cart LECCRP2 	Multipurpose cart made of lightweight polymer crash/resuscitation carts. Incorporates Microban offering antimicrobial protection. Smooth rounded corners to allow for easier cleaning. Fitted with a single seal mechanism to secure the top compartment, drawers and side bins	METRO/ USA	1



No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
33	patient transfer bed	Included in Recovery Area item #1	Included in Recovery Area item #1		0
34	Anesthesia stool		Nurse stool/REVOLVING STOOL - Plastic base with 5 casters. Variable height from 43 to 55 cm. Stainless steel seat. Length mt: 0,48 Width mt: 0,65	FAZZINI/Italy	1
35	Surgeon stool		Nurse stool/REVOLVING STOOL - Plastic base with 5 casters. Variable height from 43 to 55 cm. Stainless steel seat. Length mt: 0,48 Width mt: 0,65	FAZZINI/Italy	1
36	Assistant surgeon stool		Nurse stool/REVOLVING STOOL - Plastic base with 5 casters. Variable height from 43 to 55 cm. Stainless steel seat. Length mt: 0,48 Width mt: 0,65	FAZZINI/Italy	1
37	Mayo table		MAYO TABLE - Stainless steel 18/10 construction, variable height, 4 castor base ø 50 mm. Removable stainless steel tray. Variable height from 74 to 104 cm.	FAZZINI/Italy	1
38	Instrument trolley		STAINLESS STEEL CARTS - Cart entirely made from glazed stainless steel AISI 304. The cart is particularly robust, handy, with removable shelves with raised edges to avoid spilling. N° SHELVES 2 - SWIVEL CASTERS 125 mm.	FAZZINI/Italy	1
39	Steel trolley with 2 trays	Included in item #38	Included in item #38		0
40	Trolley for 2 bags		SOILED LINEN TROLLEY - Chrome plated frame. Mounted on Ø 80 mm casters. Removable bag. Knock down construction. 2 Bags. Ø cm. 46 x 95 h.	FAZZINI/Italy	1
41	Single bowl stand		BOWL'S STAND - Constructed from chrome plated steel tube. Variable height. Stainless Steel bowl. STAINLESS STEEL BASE.	FAZZINI/Italy	1
42	Double bowl stand		BOWL'S STAND - Constructed from chrome plated steel tube. Variable height. Stainless Steel bowl. STAINLESS STEEL BASE.	FAZZINI/Italy	1
43	Mobile IV stand		Mobile IV stand/I.V. STAND ON CASTERS - Adjustable height from 160 to 220 cm. STAINLESS STEEL BASE - Foldable base with 5 casters. S.S. tube, 4 plastic hooks. Length mt: 1,17 Width mt: 0,32 Height mt: 0,14	FAZZINI/Italy	1
44	Two step foot stool		MOUNTING STEP - Chrome plated steel frame with plastic feet. Step covered with anti slip rubber. Knock down construction. 2 steps s.s.frame	FAZZINI/Italy	1
45	Waste plastic trolley		SOILED LINEN TROLLEY - Chrome plated frame. Mounted on Ø 80 mm casters. Removable bag. Knock down construction. 2 Bags. Ø cm. 46 x 95 h.	FAZZINI/Italy	1



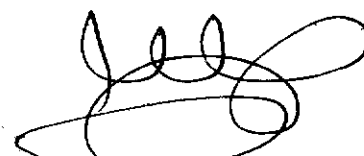


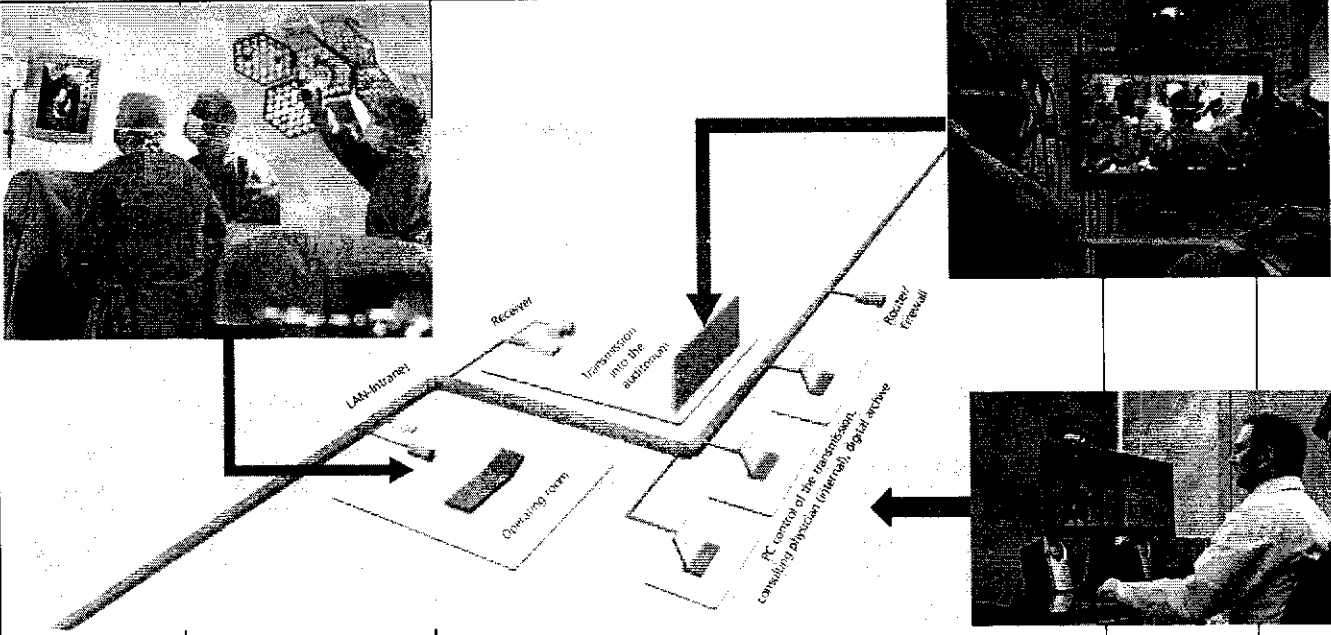
No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
46	Surgical Pendant	TruPort 7500 - 1865 AN 	Double Arms, 865 mm + 1000mm, Horizontal Swiveling with 2nd Arm Motor Driven Vertical Movement. (Tandem Prepared for future Upgrade) Upper and Middle Bearing with Pneumatic Brakes. Gas Outlets, Power Sockets, Data outlet Provision, 4xShelves,1x drawer for lower shelf	Trumpf/ Germany	1
47	Anesthesia Pendant	TruPort 7500 - 1865 AN 	Double Arms, 865 mm + 1000mm, Horizontal Swiveling with 2nd Arm Motor Driven Vertical Movement. (Tandem Prepared for future Upgrade) Upper and Middle Bearing with Pneumatic Brakes. Gas Outlets, Power Sockets, Data outlet Provision Only, 1xShelf, 1xDrawer,1x Equipment Adapter for Anesthesia Adapter Frame.	Trumpf/ Germany	1
48	Ambient ceiling light for operation room	Included in Item #4	Included in Item #4		0
49	Clock System	Included in item #62	Included in item #62		0
50	Bedsore Mattress	Ripple Air Mattress & Compressor 	The compressor pump features a control handle which makes pressure regulation easy. Air amount is adjustable to suit patient weight from 40 to 150 kg. Low noise, long lasting pump. AIR MATTRESS Size: 190x85 cm	Braun/ UK	1
51	Rigid Systoscopy	Rigid Systoscopy		EU,USA or japan	1
52	Fibro-optic Systoscopy	Fibro-optic Systoscopy		EU,USA or japan	1
53	Rigid Sigmoidoscopy	Rigid Sigmoidoscopy		EU,USA or japan	1
54	Fibro-optic Sigmoidoscopy	Fibro-optic Sigmoidoscopy		EU,USA or japan	1
55	Procrctoscopy with metallic O2 regulator with accessories	Procrctoscopy with metallic O2 regulator with accessories		EU,USA or japan	1
56	Reflometer	Reflometer		EU,USA or japan	1
57	Metal detector	Metal detector		EU,USA or japan	1
58	Blood gaz analyzer	Blood gaz analyzer		EU,USA or japan	1
59	Serum elecrolite	Serum elecrolite		EU,USA or japan	1
60	Short Celoscopy	Short Celoscopy		EU,USA or japan	1

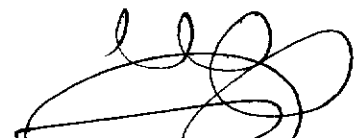




No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
61	IT Solution & Digital OR Environment	TruVidia SD7000 & i-Control	IT Solution & Digital OR Environment		1
		TruVidia SD7000	<p>Integrated Communications Solution, Telemedicine, Cabled Network Streaming With Participants in The OR, The Physician's Office, and The Lecture Hall</p> <ul style="list-style-type: none"> - As an integrated communications solution, telemedicine connects important internal and external interfaces used in the day-to-day operation of clinics. - This permits interactive cooperation between operating rooms and physician offices, additional clinics, universities and research laboratories. - The color camera technology is specially designed for TRUMPF TruLight Surgical lights either in the light heads or at separate carrying arm. The new 1/6" Super CCD camera incorporates a newly developed Serial Digital inter-face (SDI) for rapid, convenient transmission of digital video , a technological first in the field of surgical light camera systems. SDI is the preferred method for digital image routing, digital flat panel display and digital image capture and archiving in today's fully integrated all-digital operating rooms. Not only does SDI deliver the highest quality images, but it also allows the use of longer cable length without the use of expensive repeaters. - The innovative sterile operating concept at the surgical light head permits ergonomically work processes and supports an intuitive operation of the camera . - The special control software allows camera access via TCP/IP address. All camera functions could be controlled via existing hospital LAN. The newly developed digital still memory mode captures digital still images (720 X 582 PAL-720X482 NTSC) directly onto memory stick media for easy transfer to E-Mail, Printing, or sharing with compatible memory stick devices. - The highly sophisticated digital codec for digital video streaming via existing hospital LAN to store or transmit LIVE video sequences (MPEG 2 and MPEG 4) is available with a bi-directional audio transmission for telemedicine purpose. 	Trumpf / Germany	

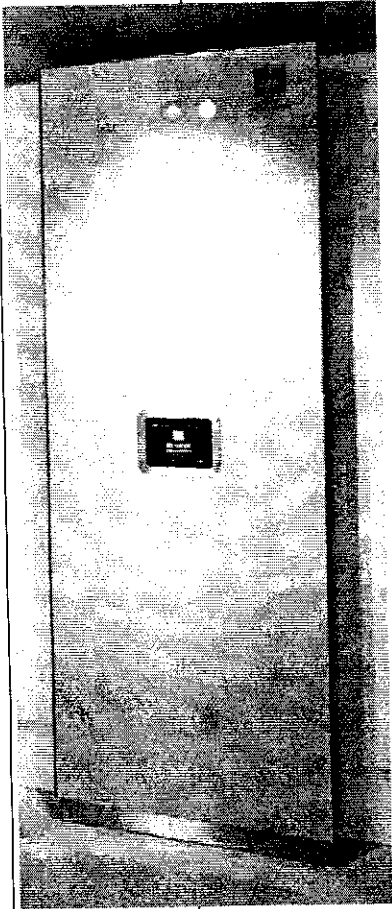
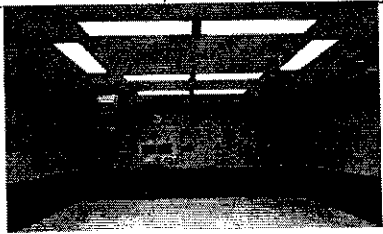


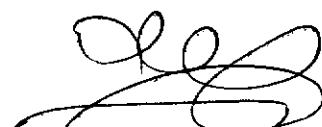
No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
		 <p>The diagram illustrates the TruVidia system architecture. It shows a central unit with various ports and connections. Arrows indicate data flow: from the LAN/Internet, through the Receiver, into the Ethernet, then to the Router/Firewall, and finally to the PC control of the transmission. The PC is also connected to a consulting physician (Internet) digital archive. The diagram also shows the Operating room connected to the system.</p>	<p>SDI - digital video quality: Besides the usual analogue video output (Y/C, FBAS), TruVidia also includes a digital video output in SDI format. SDI is the preferred method for digital video routing and for digital image capture and archiving in the SD range. So that while analogue signals can be sensitive to environmental influences, SDI gives you interference-free transmission even over longer distances.</p> <p>True-to-life image reproduction: After adjusting the color temperature, TruVidia automatically adapts to the new conditions without the need for you to perform a new white balance manually. This ensures natural, realistic color reproduction, and this can be sensed by the more reliability in consultations and remote diagnosis and more realistic images in the lecture hall or auditorium.</p> <p>Sterile operation of the most important functions: Whether you want to change the image framing or highlight and store details for archiving, with TruVidia you can activate the most important functions for these purposes directly from the control light, thus maintaining sterile conditions. The sterile OR team can make image framing corrections quickly and directly. Additional non-sterile staff is unnecessary.</p> <p>Fast, flexible data storage: To permit recording of snapshots during operation, TruVidia offers you an easy-to-use, flexible tool: Using the USB 2.0 interface integrated into the control unit, you can store data directly onto a USB flash memory stick. So that processing the data after the operation can be easily done directly on PC or laptop, without relying on a network, to prepare reports, presentations or e-mails</p>		



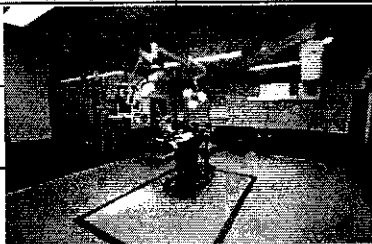
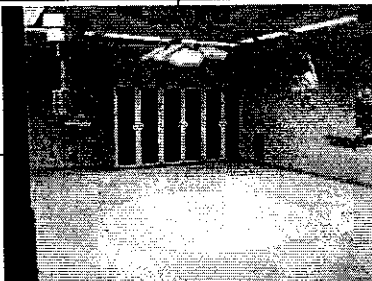

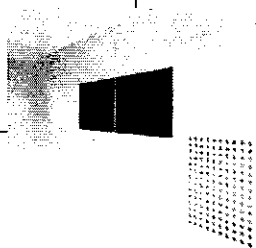
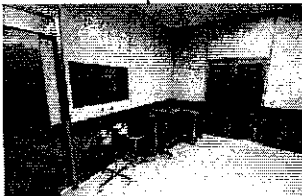
No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
			<p>Specifications camera module TruVidia SD 7000:</p> <p>Resolution 800,000 Pixel (PAL), 680,00 Pixel (NTSC)</p> <p>Zoom 25x optical</p> <p>Lenses system F=2.4 mm (wide) to 60mm (tele), F1.6 to F2.7</p> <p>Signal/ Noise Ratio 49 dB</p> <p>Electrical shutter 1/4 to 1/10.000s, 20 steps (NTSC)</p> <p>1/3 to 1/10.000s ,, 20 steps(PAL)</p> <p>Horizontal resolution 470TV lines (NTSC), 460 TV lines(PAL)</p> <p>Min. Illumination 3.0 Lux(50 IRE)</p> <p>Image Stabilization Standard</p> <p>White balance Automatic/Manual</p> <p>Motorized picture rotation >360°</p> <p>Picture freeze Digital</p> <p>Auto Exposure (AE) Spot/Integral</p> <p>Focusing Automatic/Manual</p> <p>Gain Automatic/Manual (-3 to 28 dB, 16 Steps)</p>		
			<p>Features MPEG Codes:</p> <ul style="list-style-type: none"> - MJPEG/MPEG1/MPEG2/MPEG4/Div X 5.0 - 30FPS - Full Duplex Audio (bi-Directional) - DDNS Support - Anti-Loss Buffered Recording 		
			<p>I/O connector :</p> <ul style="list-style-type: none"> - Etrolink TM Interface - Digital I/O - RS-485 PTZ Camera Control - Audio and Output - 10/100 Mbps Ethernet Port 		

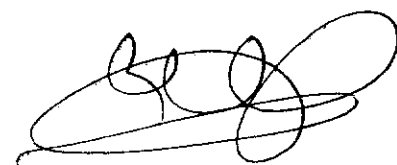


No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
		i-Control	<p>Control Unit</p> <p>Design:</p> <ul style="list-style-type: none"> o A housing made of glass and stainless steel forms the box for the control and process visualization of complete areas or rooms. The control and display unit is equipped with the standard product from "Apple", the iPad. o iPhone can be added for medical educational conference calls. <p>Usage</p> <ul style="list-style-type: none"> o controlling o process visualization <p>Components</p> <ul style="list-style-type: none"> o Dimensions: Width 1000 mm, D 250 mm, Height 3000 mm o Body V2A grinded or powder coated o Socle V2A grinded or powder coated o Door ESG safety glass 6 mm with back painting / o stainless steel powder coated <p>Features</p> <ul style="list-style-type: none"> o iPad for visualization and operator terminal, iPad 16GB o Clock digital o Date with world receiver o Power saving mode room or area can be 100% 0% regulated energy consumption o Control (maximum data points 64, potential free contacts 32) Light and doors o Directly room lighting with dimming (Dali) o Doors / Blinds / Window o Door button all doors lock / unlock o optional all doors open and close individual o Blinds individual open / close adjustable rips o Warning light outside X-ray / laser o Disinfection complete locking of the room <ul style="list-style-type: none"> - Alarm o Gases up to 8 alarm enunciator o Ventilation fault fault indication of the atmospheric sensors o Filter fault Filter monitoring the supply air ceiling Stopwatch o Start / Stop / Reset standard function of the iPad 	HT/ Germany	1
		IT infrastructure	- Desktop PC	as per the contract	1
			- Network infrastructure (Cabling & Switches).	as per the contract	Qty according to plan
62	Modular Room System	different	Modular Room System for the OR	HT/Germany	Qty according to plan
			<p>WALL COVERING:</p> <p>Wall covering - stainless steel with plaster board core</p> <p>Wall covering is made stainless steel with 1 mm thickness and plaster board core with 18 mm thickness acc. to the room details, incl. sealing tape, joint profile and fastening parts, maximum joint width 8 mm; Panel width according to grid 1200 mm, lesser grids available one-piece panels up to the suspended ceiling.</p>		








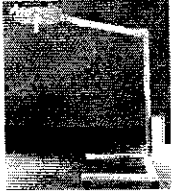
No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
			ROOM VENTILATION - AIR CONDITION: Exhaust air cabinets Laminar flow system		
			OT secondary clock		
			CLEAN ROOM ILLUMINATORS		
			Ceiling: 1 mm galvanized metal coffered ceiling coated RAL 9010 white Module dimensions: 1.200 mm x 600 mm or 600 mm x 600 mm respectively		
			Flooring: Heavy Duty Vinyl Flooring and skirting. Skirting will be of PVC type skirting coved with backing filler and coping strip with welded joints.		
			OT-DOORS: Sliding door system (door frame surfaces and leaf made of stainless steel) Hinged door system (door frame surfaces and leaf made of stainless steel)		
			X-ray Viewing screen, 430 x 1200 mm		
			23" HD Monitor		
			Pass-through cabinet system integrated in the wall 1.200x2.100x700mm		








صالة رقم 4: جراحة جملة عصبية

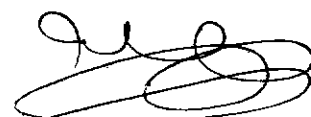
Room to Room Medical Equipments BoQ & Specs








جدول الكميات و المواصفات للأجهزة الطبية في الغرف







No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
1	Anesthesia Machine	Prima SP2 	Trolley Machine O2 / N2O Cylinder and O2 Pipeline, Cascade Flow meter with Mechanical AHD, Carbon Dioxide Absorber with Bag Vent and Bypass Heater, Color monitor of SIMV, PSUP, SMMV Spirometry O2 monitor remote screen , 2 vaporizers	Penlon/ UK	1
1 alternative	Anesthesia Machine	Aespire 7100 	Trolley Machine O2 / N2O Cylinder and O2 Pipeline, Cascade Flow meter with Mechanical AHD, Carbon Dioxide Absorber with Bag Vent and Bypass Heater, Color monitor of SIMV, PSUP, SMMV Spirometry O2 monitor remote screen , 2 vaporizers	GE Healthcare/ USA	1
2	Operating Table	SATURN SELECT 3.02 	Mobile operating table with longitudinal slide with electrically motorized adjustment of height, Trendelenburg/ anti-Trendelenburg and tilt, gas spring-assisted back section adjustment and manual longitudinal shift adjustment; two-part table top, with TRUMPF standard coupling points at head and MERKUR Plus coupling points at leg end, consists of seat and back section; column can be operated with either the cable or IR remote control. Maximum patient weight 225 kg.	Trumpf/ Germany	1
3	Mobile Surgical Light	TruLight 3300 Mobile 	Mobile LED Surgical Light, incl. transformer and mains cable, Sterilizable central handle, 3 pcs. Central Illuminance 100,000 Lux	Trumpf/ Germany	1

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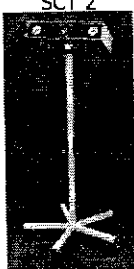







No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
4	Surgical Light	TruLight 5500/ 5300/ vediaPORT 2000 (with integrated camera) and TFT Monitor 19" 	LED Type light Main Surgical Ceiling light TruLight 5500 with Illumination of 150,000 Lux and LED Type Satellite Surgical Ceiling light TruLight 3500 with Illumination of 120,000 Lux. Integrated Camera SD7000 with 800,000 Pixel (PAL) resolution, 680,00 Pixel (NTSC) resolution, 25x optical zooming, Automatic/ Manual Focusing, Motorized picture rotation 360° & 19" TFT Monitor.	Trumpf/ Germany	1
5	Mobile Examination Light	TruLight 1000 	Mobile LED Examination Light, incl. transformer and mains cable, Sterile Handle. Central Illuminance 50,000 Lux	Trumpf/ Germany	1
6	Major Operating Led Kalea 20+30	Included in item #4	Included in item# 4		0
7	Electrosurgical Unit	ARC300e 	Height Frequency Generator with the following package: Accessories Set, 2.4mm including: 1x Electrode handle, reusable 1x Electrode set with container, reusable 1x Disposable spitted return plates 1x Connecting cable for disposable plates 1x Bipolar forceps, reusable 1x Connecting cable of bipolar forceps 1x Adapter for footswitched instruments 1x Reusable bipolar forceps, bayonet, 195mm Equipment trolley, Two-pedal footswitch	Bowa/ Germany	1
8	C-Arm with Angiography Option	SXT-1000A/92 9" +ORPaxera HFV Basic 200 	Mobile type main unit including I.I (9" intensifier), TV camera X-ray generator, beam device, foot switch. Image Memory Unit, TV monitors, Monitor cart for two monitors Cassete Hoder (including hand switch for Radiography) Accessories (clean cover fixture, Fuses and cables). ORPaxera is a very powerful and scalable acquisition and viewing station for X-ray machines. The ORPaxera station can be connected to any type of X-ray machines whether it is dicom or non-dicom "using video or digital interface". One of the important features of the ORPaxera station is that it can convert the non-dicom X-ray into a dicom one providing huge amount of functions and facilities for image information, archiving and processing. The ORPaxera system can do online and offline DSA "Digital Subtraction Angiography" and Road Mapping.	Toshiba/ Japan & PAXERAMED/ USA or from EU origin	1
9	Automatic External Defibrillator Monitor	LIFEPAK® 20e 	Manual defibrillation mode 1-2-3 operation and Automated External Defibrillator with Shock Advisory System to advise operator when it detects a shockable rhythm. LCD color matrix screen display allows 1st. channels to be viewed ECG and 2nd. channel cascading ECG with up to 8 seconds of ECG. with Standard Detachable Hard Paddles Adult & Pediatric, and Lithium Ion rechargeable internal battery with battery level indicator.	Physio-Control / USA	1



No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
10	Oxygen flowmeter	Included in Medical Gas Solution	Included in Medical Gas Solution		0
11	Oxygen humidifier	Included in Item #1	Included in Item #1		0
12	Air flowmeter	Included in Medical Gas Solution	Included in Medical Gas Solution		0
13	Regulator, Suction w/ Canister Set	Master45 	Suction capacity 45l/min., vacuum range 10 to 85kPa, Glass-Cylinder/Piston System, Casing with: carrying handle, fitting rail, vacuum meter and vacuum regulator, Hydrophobic bacterial filter (plus 10 spare filters), 2x2L suction jar	Ardo/ Switzerland	1
14	Emergency manual resuscitator- adult	Adult Silicone Bag-Valve-Mask 	Adult Silicone Bag-Valve-Mask Resuscitator complete with Silicone Universal Resuscitation Mask and Oxygen Reservoir System	O-TWO/ Canada	1
15	Emergency manual resuscitator- Infants	Child Silicone Bag-Valve-Mask 	Child Silicone Bag-Valve-Mask Resuscitator complete with Silicone Universal Resuscitation Mask and Oxygen Reservoir System	O-TWO/ Canada	1
16	Emergency manual resuscitator- neonates	Easy Grip® Silicone Bag-Valve-Mask 	Easy Grip® Silicone Bag-Valve-Mask Resuscitator Infant complete with Silicone Infant Resuscitation Mask & Oxygen Reservoir System in Cardboard Carton	O-TWO/ Canada	1
17	Medical Oxygen Cylinder	Medical Oxygen Cylinder 	Medical Oxygen Cylinder "D" Aluminum Cylinder with Toggle (415 Liters)	O-TWO/ Canada	1
		Medical Oxygen Regulator 	Medical Oxygen Regulator Brass Pin-Indexed Yoke with Therapy Flow 0 - 25 L/min, Barbed Outlet - with 2 x 9/16 Self-Sealing DISS Outlets Brass with British fast connector	O-TWO/ Canada	1
18	Diathermy	Included in Item #7	Included in Item #7		0
19	Blood Warmer	Included in Item #21	Included in Item #20		0
20	Blood and fluid accelerator	Level 1® H-1200 	Fast Flow Fluid Warmer with integrated Air Detector/Clamp, Aluminum heat exchanger, providing a constant 300mmHg pressure for rapid infusion	Smith Medical USA/	1







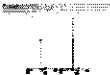



No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
21	Anesthesia Vital Sign Monitor	M5 patient monitor 	Integrated module frame with 5 slots, Arrhythmia/ST segment analysis, 8 waveforms channel, 120 hours graphic/list trending, Network interface, Peripheral devices interface (4 USB ports), 1 Lithium-ion battery, 12.1" LCD with anti-glare screen, Including the following Parameters :3/5 ECG, respiration, dual channel temp., NIBP, dual channel IBP, SpO2 with Adult accessory kit. Mounted on the Anesthesia Machine.	Penlon/ UK	1
21 alternative	Anesthesia Vital Sign Monitor	ARGUS LCX 	Light weight and small intermediate care patient monitor with bright 15" TFT screen and easy to- use interface by trim knob. For use with adult, pediatrics and neonatal Alarm monitoring on all parameters with Basic Arrhythmia Asystole and V-Fibrillation Trend storage for 24 hours, with ECG, SpO2, NIBP, IBP and TEMP connection with Adult accessory kit. Mounted on the Anesthesia Machine.	Schiller A.G./ Switzerland/ France	1
21 alternative	Anesthesia Vital Sign Monitor	Dash 5000 	12" Display, Bedside w/GE Ohmeda SpO2 w/Hardwired Networking 1x ECG Cable 3/5 LD 3,6m , 1x 5/Lead Wire , 1x Nellcor Patient Cable , 1x Nellcor Compatible Finger Sensor , 1x Tubing adult/ paediatric , 1x Dura Cuf Adult Standard	GE Healthcare/ North America (Mexico)	1
22	Portable oxygen analyzer and monitor	Included in Item #21	Included in Item #21		0
23	Patient Warmer	HICO-Aquatherm 660 	Handling of HICO-AQUATHERM 660 is very simple and safe. The temperature of the warming mat can be adjusted by push-button from 35-39°C.	HIRTZ/ Germany	1
24	Portable pulse oxymeter	Included in Item #21	Included in Item #21		0
25	Argon plasma coagulator	Arc Plus 	Argon Purity 4.8 or better, Class 2.1 A . Gas input pressure 2.5-4.5 bar. Max. gas output pressure 2 bar. Continuous flow monitoring, fault indication with display of error number, hose blockage detection, continuous self-test, warning tone, continuous pressure monitoring at distal end.	Bowa/ Germany	1
26	Tens nerve stimulator	Stimuplex HNS12 	Ergonomic shape and large display. Digital ratchet control knob for precise and tactile current adjustment. Alarm screens and acoustic signals inform the user of relevant deviation. Instant set keys allow quick switching between stimulus current and impulse duration	Braun/ UK	1
27	Pressure cuff manometer for local anaesthesia	Included in Item #28	Included in Item #28		






No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
28	Automatic tourniquate with stand		This machine has the facility to indicate both pre-select pressure and cuff pressure using the same gauge. The pre-select pressure is set before the operation, while the machine is in deflate, after the cuff has been applied to the patient and set to inflate the gauge will then indicate the actual cuff pressure throughout the operation.	Braun/ UK	1
29	Macintosh fiber optic Laryngoscope blade sizes 1, 2, 3 & 4		STAND. F.O. LED LARYN.HAND.2.5V LED BATT.INSERT F.STAND. F.O. BOTTOM CAP F.STAND.F.O.LAR.HA. HANDLE SHELL F.STANDARD LAR.HA MAC BLADE MODULE, METAL size 1,2,3,4	Heine Germany	1
30	MILLER F.O. BLADE size 0,1,2		MILLER F.O. BLADE size 0,1,2	Heine Germany	1
31	Infusion Pump, Single Channel		Flowrate: 0.1-99.9 ml/hrs in 0.1ml increaments, 1-999 ml/hrs in 1ml increaments with occlusion pressure alarm.	Smith Medical/ UK	1
32	Infusion Pump, Syringe Anesthesia		Flow rate: 0.1-199.9 ml/hrs in 0.1ml increments with battery operating time >3hrs under normal operating conditions.	Smith Medical USA/	1
33	Multipurpose cart		Multipurpose cart made of lightweight polymer crash/resuscitation carts. Incorporates Microban offering antimicrobial protection. Smooth rounded corners to allow for easier cleaning. Fitted with a single seal mechanism to secure the top compartment, drawers and side bins	METRO/ USA	1
34	patient transfer bed	Included in Recovery Area item #1	Included in Recovery Area item #1		0
35	Anesthesia stool		Nurse stool/REVOLVING STOOL - Plastic base with 5 casters. Variable height from 43 to 55 cm. Stainless steel seat. Length mt: 0,48 Width mt: 0,65	FAZZINI/Italy	1
36	Surgeon stool		Nurse stool/REVOLVING STOOL - Plastic base with 5 casters. Variable height from 43 to 55 cm. Stainless steel seat. Length mt: 0,48 Width mt: 0,65	FAZZINI/Italy	1



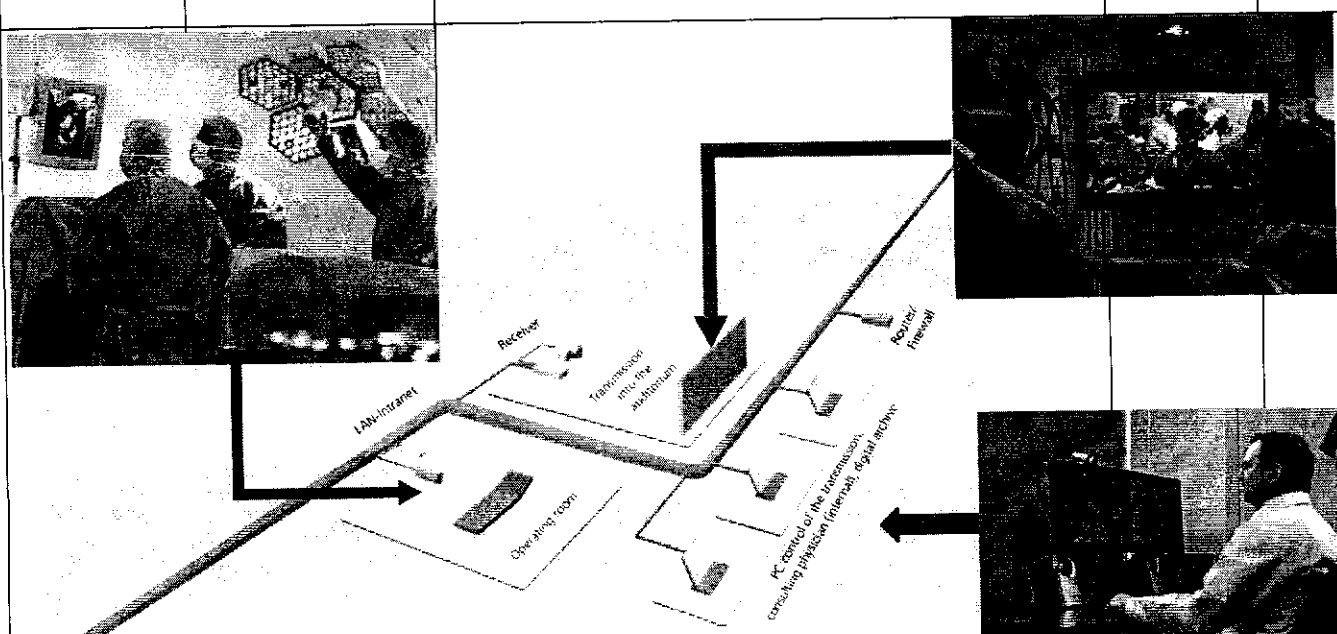


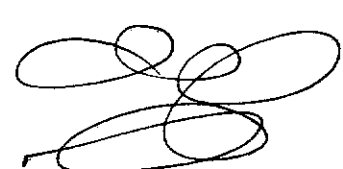
No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
37	Assistant surgeon stool		Nurse stool/REVOLVING STOOL - Plastic base with 5 casters. Variable height from 43 to 55 cm. Stainless steel seat. Length mt: 0,48 Width mt: 0,65	FAZZINI/Italy	1
38	Mayo table		MAYO TABLE - Stainless steel 18/10 construction, variable height, 4 castor base ø 50 mm. Removable stainless steel tray. Variable height from 74 to 104 cm.	FAZZINI/Italy	1
39	Instrument trolley		STAINLESS STEEL CARTS - Cart entirely made from glazed stainless steel AISI 304. The cart is particularly robust, handy, with removable shelves with raised edges to avoid spilling. N° SHELVES 2 - SWIVEL CASTERS 125 mm.	FAZZINI/Italy	1
40	Steel trolley with 2 trays	Included in item #39	Included in item #39		0
41	Trolley for 2 bags		SOILED LINEN TROLLEY - Chrome plated frame. Mounted on ø 80 mm casters. Removable bag. Knock down construction. 2 Bags. ø cm. 46 x 95 h.	FAZZINI/Italy	1
42	Single bowl stand		BOWL'S STAND - Constructed from chrome plated steel tube. Variable height. Stainless Steel bowl. STAINLESS STEEL BASE.	FAZZINI/Italy	1
43	Double bowl stand		BOWL'S STAND - Constructed from chrome plated steel tube. Variable height. Stainless Steel bowl. STAINLESS STEEL BASE.	FAZZINI/Italy	1
44	Mobile IV stand		Mobile IV stand/I.V. STAND ON CASTERS - Adjustable height from 160 to 220 cm. STAINLESS STEEL BASE - Foldable base with 5 casters. S.S. tube, 4 plastic hooks. Length mt: 1,17 Width mt: 0,32 Height mt: 0,14	FAZZINI/Italy	1
45	Two step foot stool		MOUNTING STEP - Chrome plated steel frame with plastic feet. Step covered with anti slip rubber. Knock down construction. 2 steps s.s.frame	FAZZINI/Italy	1
46	Waste plastic trolley		SOILED LINEN TROLLEY - Chrome plated frame. Mounted on ø 80 mm casters. Removable bag. Knock down construction. 2 Bags. ø cm. 46 x 95 h.	FAZZINI/Italy	1
47	Surgical Pendant		TruPort 7500 - 1865 AN Double Arms, 865 mm + 1000mm, Horizontal Swiveling with 2nd Arm Motor Driven Vertical Movement. (Tandem Prepared for future Upgrade) Upper and Middle Bearing with Pneumatic Brakes. Gas Outlets, Power Sockets, Data outlet Provision, 4xShelves,1x drawer for lower shelf	Trumpf/ Germany	1



No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
48	Anesthesia Pendant	TruPort 7500 - 1865 AN 	Double Arms, 865 mm + 1000mm, Horizontal Swiveling with 2nd Arm Motor Driven Vertical Movement. (Tandem Prepared for future Upgrade) Upper and Middle Bearing with Pneumatic Brakes. Gas Outlets, Power Sockets, Data outlet Provision Only, 1xShelf, 1xDrawer, 1x Equipment Adapter for Anesthesia Adapter Frame.	Trumpf/ Germany	1
49	Ambient ceiling light for operation room	Included in Item #4	Included in Item #4		0
50	Clock System	Included in Item #56	Included in item #55		0
51	Bedsore Mattress	Ripple Air Mattress & Compressor 	The compressor pump features a control handle which makes pressure regulation easy. Air amount is adjustable to suit patient weight from 40 to 150 kg. Low noise, long lasting pump. AIR MATTRESS Size: 190x85 cm	Braun/ UK	1
52	Neuronavigator system	Cygnus-PFS™ Image Guided Surgery (IGS) 	The system provides capabilities for biopsies, bone flap placements, craniotomies, and other procedures. The software includes enhanced selection of reference points, tumor cross section, biopsy planning, image correlation, surgeon preferences, interactive selection of instrumentation, metal detection and more. With the new Intellitrak feature, the system now detects if there is any metal in the field, which helps provide better accuracy. The CYGNUS-PFS is a fully functional intra-operative intra/extra cranial Image-Guided Surgery System. The surgeon can take the laptop outside the OR and plan with the system if they want to. Laptop, 24" Flat Panel and Portable Tower are included.	COMPASS International Innovations, Inc./ USA	1
53	Neuro surgical microscope			Europe or USA or Japan	1
54	IT Solution & Digital OR Environment	TruVidia SD7000 & i-Control	IT Solution & Digital OR Environment		1
		TruVidia SD7000	Integrated Communications Solution, Telemedicine, Cabled Network Streaming With Participants in The OR, The Physician's Office, and The Lecture Hall - As an integrated communications solution, telemedicine connects important internal and external interfaces used in the day-to-day operation of clinics. - This permits interactive cooperation between operating rooms and physician offices, additional clinics, universities and research laboratories.	Trumpf / Germany	



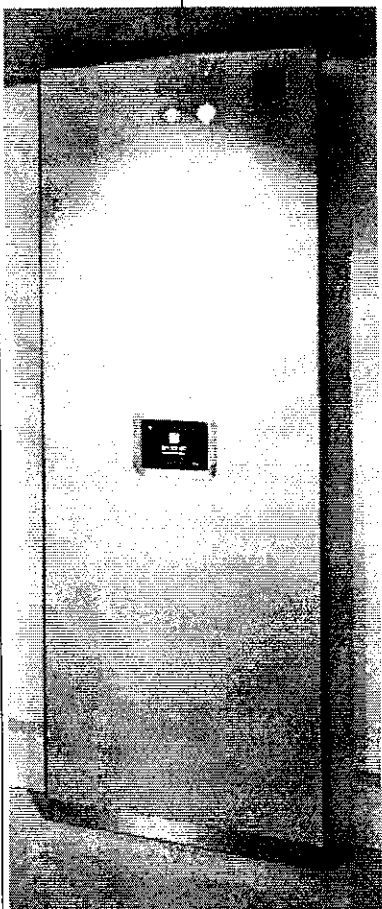
No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
			<ul style="list-style-type: none"> - The color camera technology is specially designed for TRUMPF TruLight Surgical lights either in the light heads or at separate carrying arm. The new 1/6" Super CCD camera incorporates a newly developed Serial Digital inter-face (SDI) for rapid, convenient transmission of digital video , a technological first in the field of surgical light camera systems. SDI is the preferred method for digital image routing, digital flat panel display and digital image capture and archiving in today's fully integrated all-digital operating rooms. Not only does SDI deliver the highest quality images, but it also allows the use of longer cable length without the use of expensive repeaters. - The innovative sterile operating concept at the surgical light head permits ergonomically work processes and supports an intuitive operation of the camera . - The special control software allows camera access via TCP/IP address. All camera functions could be controlled via existing hospital LAN. The newly developed digital still memory mode captures digital still images (720 X 582 PAL-720X482 NTSC) directly onto memory stick media for easy transfer to E-Mail, Printing, or sharing with compatible memory stick devices. - The highly sophisticated digital codec for digital video streaming via existing hospital LAN to store or transmit LIVE video sequences (MPEG 2 and MPEG 4) is available with a bi-directional audio transmission for telemedicine purpose. 		
			 <p>The diagram illustrates the system architecture for the surgical light camera system. It shows a central 'LAN-Intranet' hub connecting three main components: <ul style="list-style-type: none"> Operating room: Represented by a photo of surgeons, connected via a 'Receiver' and 'Transmission interface adaptation' block. PC center of the transmission: Represented by a photo of a doctor at a computer, connected via a 'Router/Firewall' and 'Transmission interface adaptation' block. Archiving: A 'PC center of the transmission, converting digitized (internally) digital archive' block that receives data from the PC center. </p>		



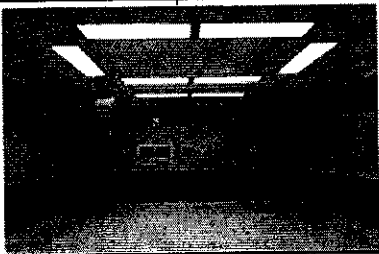
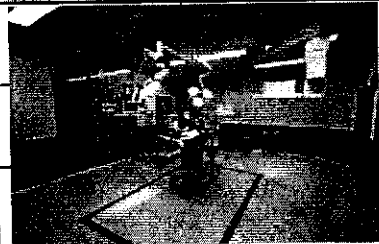


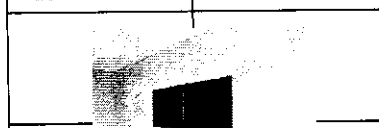
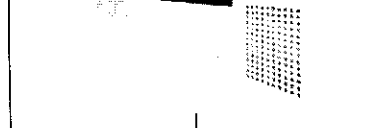


No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
			<p>SDI - digital video quality: Besides the usual analogue video output (Y/C, FBAS), TruVidia also includes a digital video output in SDI format. SDI is the preferred method for digital video routing and for digital image capture and archiving in the SD range. So that while analogue signals can be sensitive to environmental influences, SDI gives you interference-free transmission even over longer distances.</p> <p>True-to-life image reproduction: After adjusting the color temperature, TruVidia automatically adapts to the new conditions without the need for you to perform a new white balance manually. This ensures natural, realistic color reproduction, and this can be sensed by the more reliability in consultations and remote diagnosis and more realistic images in the lecture hall or auditorium.</p> <p>Sterile operation of the most important functions: Whether you want to change the image framing or highlight and store details for archiving, with TruVidia you can activate the most important functions for these purposes directly from the control light, thus maintaining sterile conditions. The sterile OR team can make image framing corrections quickly and directly. Additional non-sterile staff is unnecessary.</p> <p>Fast, flexible data storage: To permit recording of snapshots during operation, TruVidia offers you an easy-to-use , flexible tool: Using the USB 2.0 interface integrated into the control unit, you can store data directly onto a USB flash memory stick. So that processing the data after the operation can be easily done directly on PC or laptop, without relying on a network, to prepare reports, presentations or e-mails.</p> <p>Specifications camera module TruVidia SD 7000: Resolution 800,000 Pixel (PAL), 680,00 Pixel (NTSC) Zoom 25x optical Lenses system F=2.4 mm (wide) to 60mm (tele), F1.6 to F2.7 Signal/ Noise Ratio 49 dB Electrical shutter 1/4 to 1/10.000s, 20 steps (NTSC) 1/3 to 1/10.000s ,, 20 steps(PAL) Horizontal resolution 470TV lines (NTSC), 460 TV lines(PAL) Min. Illumination 3.0 Lux(50 IRE) Image Stabilization Standard White balance Automatic/Manual Motorized picture rotation >360° Picture freeze Digital Auto Exposure (AE) Spot/Integral Focusing Automatic/Manual Gain Automatic/Manual (-3 to 28 dB, 16 Steps)</p>		
			<p>Features MPEG Codes: - MJPEG/MPEG1/MPEG2/MPEG4/Div X 5.0 - 30FPS - Full Duplex Audio (bi-Directional) - DDNS Support</p>		



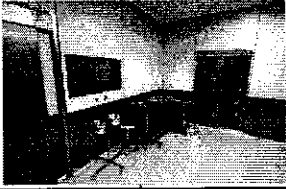
No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
			I/O connector : - EtroLink TM Interface - Digital I/O - RS-485 PTZ Camera Control - Audio and Output - 10/100 Mbps Ethernet Port		
		i-Control	<div>  </div> Control Unit Design: o A housing made of glass and stainless steel forms the box for the control and process visualization of complete areas or rooms. The control and display unit is equipped with the standard product from "Apple", the iPad. o iPhone can be added for medical educational conference calls. Usage o controlling o process visualization Components o Dimensions: Width 1000 mm, D 250 mm, Height 3000 mm o Body V2A grinded or powder coated o Socle V2A grinded or powder coated o Door ESG safety glass 6 mm with back painting / o stainless steel powder coated Features o iPad for visualization and operator terminal, iPad 16GB o Clock digital o Date with world receiver o Power saving mode room or area can be 100% 0% regulated energy consumption o Control (maximum data points 64, potential free contacts 32) Light and doors o Directly room lighting with dimming (Dali) o Doors / Blinds / Window o Door button all doors lock / unlock o optional all doors open and close individual o Blinds individual open / close adjustable rips o Warning light outside X-ray / laser o Disinfection complete locking of the room - Alarm o Gases up to 8 alarm enunciator o Ventilation fault fault indication of the atmospheric sensors o Filter fault Filter monitoring the supply air ceiling Stopwatch o Start / Stop / Reset standard function of the iPad	HT/ Germany	1



No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
		IT infrastructure	- Desktop PC	as per the contract	1
			- Network infrastructure (Cabling & Switches).	as per the contract	Qty according to plan
55	Modular Room System	different	Modular Room System for the OR	HT/Germany	Qty according to plan
			WALL COVERING: Wall covering - stainless steel with plaster board core Wall covering is made stainless steel with 1 mm thickness and plaster board core with 18 mm thickness acc. to the room details, incl. sealing tape, joint profile and fastening parts, maximum joint width 8 mm; Panel width according to grid 1200 mm, lesser grids available one-piece panels up to the suspended ceiling. Powder-coating on wall panels for OT walls according to customer's choice.		
			ROOM VENTILATION - AIR CONDITION: Exhaust air cabinets Laminar flow system		
			OT secondary clock		
			CLEAN ROOM ILLUMINATORS		
			Ceiling: 1 mm galvanized metal coffered ceiling coated RAL 9010 white Module dimensions: 1.200 mm x 600 mm or 600 mm x 600 mm respectively		
			Flooring: Heavy Duty Vinyl Flooring and skirting. Skirting will be of PVC type skirting covered with backing filler and copping strip with welded joints.		
			OT-DOORS: Sliding door system (door frame surfaces and leaf made of stainless steel) Hinged door system (door frame surfaces and leaf made of stainless steel)		
			X-ray Viewing screen, 430 x 1200 mm		
			23" HD Monitor		






No.	Item name	Product	Brief Description	Origin of Goods Production	Qty.
			Pass-through cabinet system integrated in the wall 1.200x2.100x700mm		

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منطقة مغاسل الطاقم الطبي

Room to Room Medical Equipments BoQ & Specs
جدول الكميات و المواصفات للأجهزة الطبية في الغرف

#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
1	Modular Room		<p>Modular Room System for the Scrub-up area</p> <p>WALL COVERING: Wall covering - stainless steel with plaster board core Wall covering is made stainless steel with 1 mm thickness and plaster board core with 18 mm thickness acc. to the room details, incl. sealing tape, joint profile and fastening parts, maximum joint width 8 mm; Panel width according to grid 1200 mm, lesser grids available one-piece panels up to the suspended ceiling. Powder-coating on wall panels anteroom walls according to customer's choice.</p> <p>Ceiling: 1 mm galvanized metal coffered ceiling coated RAL 9010 white Module dimensions: 1.200 mm x 600 mm or 600 mm x 600 mm respectively</p> <p>Flooring: Heavy Duty Vinyl Flooring and skirting. Skirting will be of PVC type skirting covered with backing filler and coping strip with welded joints.</p> <p>CLEAN ROOM ILLUMINATORS</p> <p>Surgeons' Scrub - 2 wash basin of stainless steel-mineral</p>	HT/Germany	Qty according to plan





منطقة الممر التنظيف

Room to Room Medical Equipments BoQ & Specs
جدول الكميات و المواصفات للأجهزة الطبية في الغرف

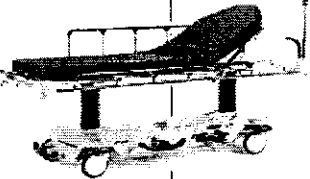



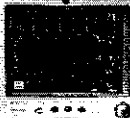
#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
1	Modular Room System	different	<p>Modular Room System for the Scrub-up area</p> <p>WALL COVERING: Wall covering - stainless steel with plaster board core Wall covering is made stainless steel with 1 mm thickness and plaster board core with 18 mm thickness acc. to the room details, incl. sealing tape, joint profile and fastening parts, maximum joint width 8 mm; Panel width according to grid 1200 mm, lesser grids available one-piece panels up to the suspended ceiling. Powder-coating on wall panels anteroom walls according to customer's choice.</p> <p>Ceiling: 1 mm galvanized metal coffered ceiling coated RAL 9010 white Module dimensions: 1.200 mm x 600 mm or 600 mm x 600 mm respectively</p> <p>Flooring: Heavy Duty Vinyl Flooring and skirting. Skirting will be of PVC type skirting covered with backing filler and copping strip with welded joints.</p> <p>CLEAN ROOM ILLUMINATORS</p>	HT/Germany	Qty according to plan






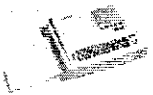

وحدة إفاقة المرضى

Room to Room Medical Equipments BoQ & Specs

جدول الكميات و المواصفات للأجهزة الطبية في الغرف

#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
1	Transport Trolley 	Model 747	Transport stretcher for quick and effective patient transport, with fifth-wheel mobility and four-wheel brakes for optimum safety. Length 211 cm. Width 76 cm. Four IV receptacles. Height Range :High 91 cm - Low 55 cm. Patient Surface 66 x 192 cm	Stryker Medical/ USA	5
2	Bedhead Unit	OKI BASIC GAS 	Bed head unit Length: 1600mm for 1 bed extruded aluminium single trunking, epoxy painted in RAL colours, equipped with: - 1 x Indirect light 1x36W T8 230V 50Hz - 1 x Direct light 1x18W T8 230V 50Hz - 2 x Electrical sockets SCHUKO standard 16A WHITE - 1 x Switch for Indirect light - 1 x Switch for Direct light - 1 x RJ45 cat.5e data socket - 1 x Gas box for 3 gas outlets	LM Medical Division S.r.l./Italy	5
3	Wall Mounted Patient Monitor	M5 patient monitor 	Integrated module frame with 5 slots, Arrhythmia/ST segment analysis, 8 waveforms channel, 120 hours graphic/list trending, Network interface, Peripheral devices interface (4 USB ports), 1 Lithium-ion battery, 12.1" LCD with anti-glare screen, Including the following Parameters :3/5 ECG, respiration, dual channel temp., NIBP, dual channel IBP, SpO2 with Adult accessory kit. Mounted on the Anesthesia Machine.	Penlon/ UK	5
3 alternative	Wall Mounted Patient Monitor	ARGUS LCX 	Light weight and small intermediate care patient monitor with bright 15" TFT screen and easyto- use interface by trimknob. For use with adult, pediatrics and neonatais Alarm monitoring on all parameters with Basic Arrhythmia Asystole and V-Fibrillation Trend storage for 24 hours, with ECG, SpO2, NIBP, IBP and TEMP connection with Adult accessory kit. Mounted on the Anesthesia Machine.	Schiller A.G./ Switzerland/ France	5
3 alternative	Anesthesia Vital Sign Monitor	Dash 5000 	12" Display, Bedside w/GE Ohmeda SpO2 w/Hardwired Networking 1x ECG Cable 3/5 LD 3,6m , 1x 5/Lead Wire , 1x Nellcor Patient Cable , 1x Nellcor Compatible Finger Sensor , 1x Tubing adult/ paediatric , 1x Dura Cuf Adult Standard	GE Healthcare/ North America (Mexico)	5



#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
4	Regulator, Suction w/ Canister Set	Master45 	Suction capacity 45l/min., vacuum range 10 to 85kPa, Glass-Cylinder/Piston System, Casing with: carrying handle, fitting rail, vacuum meter and vacuum regulator, Hydrophobic bacterial filter (plus 10 spare filters), 2x2L suction jar	Ardo/ Switzerland	4
5	Automatic External Defibrillator Monitor	LIFEPAK® 20e 	Manual defibrillation mode 1-2-3 operation and Automated External Defibrillator with Shock Advisory System to advise operator when it detects a shockable rhythm. LCD color matrix screen display allows 1st. channels to be viewed ECG and 2nd. channel cascading ECG with up to 8 seconds of ECG. with Standard Detachable Hard Paddles Adult & Pediatric, and Lithium Ion rechargeable internal battery with battery level indicator.	Physio-Control / USA	1
6	Infusion Pump, Single Channel	Graesby 3000 	Flowrate: 0.1-99.9 ml/hrs in 0.1ml increaments, 1-999 ml/hrs in 1ml increaments with occlusion pressure alarm.	Smith Medical/ UK	4
7	ECG MONITOR, electrocardiograph	CARDIOVIT AT-102 	Microprocessor based automatic electrocardiograph: 10-leadwire, 12-lead simultaneous acquisition with programmable lead configuration. Bi-directional communication via internal modem, LAN or WLAN/Wifi. Patient demographics, with set of standard accessories of Cables and disposable electrodes.	Schiller A.G./ Switzerland	1
8	X-ray viewer double		X-ray Illuminator Double	FAZZINI/Italy	1

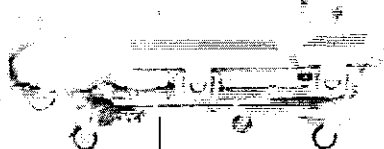






وحدة العناية المركزة









Room to Room Medical Equipments BoQ & Specs

جدول الكميات و المواصفات للأجهزة الطبية في الغرف







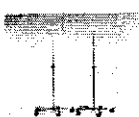



#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
1	Critical Care Bed	ELEGANZA 3XC	 <ul style="list-style-type: none"> * 4-section mattress platform, on 2 telescopic columns * height adjustment from 39,5 to 77,5 cm by actuator * Trendelenburg and reverse Trendelenburg 13 degrees by actuator * adjustment of backrest and thighrest by actuator * Ergoform comfortable system of positioning * Mattress platform adapted for frequent X ray examinations, including C arm scanning * X ray transparent backrest * CPR mechanical unblocking of backrest * integrated bed extension + 8 cm / + 17 cm * removable plastic covers of the mattress platform * 4 castors 150mm Tente Integral, central control * safe working load 230 kg * external dimensions 223 x 104,5 cm with siderails up (102,5 cm with siderails down) * internal dimensions (mattress platform) 208 x 86 cm * mattress platform height adjustment 39,5 - 77,5 cm * mattress platform tilt adjustment +/-13 degrees 	Linet/Czech	4
2	I.C.U bed side cabinet & Over Bed table	ELEGANZA Classic	 <p>A universal bedside cabinet made of metal, accessible from both sides, offering a drawer, bottom cabinet, and independently braked castors, with the dining board integrated in the cabinet's body.</p>	Linet/Czech	4
3	Wall Mounted Patient Monitor	M5 patient monitor	 <p>Integrated module frame with 5 slots, Arrhythmia/ST segment analysis, 8 waveforms channel, 120 hours graphic/list trending, Network interface, Peripheral devices interface (4 USB ports), 1 Lithium-ion battery, 12.1" LCD with anti-glare screen, Including the following Parameters :3/5 ECG, respiration, dual channel temp., NIBP, dual channel IBP, SpO2 with Adult accessory kit. and Wall Mount</p>	Penlon/UK	4







#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
3 alternative	Wall Mounted Patient Monitor	ARGUS LCX 	Light weight and small intermediate care patient monitor with bright 15" TFT screen and easy-to-use interface by trimknob. For use with adult, pediatrics and neonatal Alarm monitoring on all parameters with Basic Arrhythmia Asystole and V-Fibrillation Trend storage for 24 hours, with ECG, SpO2, NIBP, IBP and TEMP connection with Adult accessory kit. and Wall Mount	Schiller A.G./ Switzerland/ France	4
3 alternative	Anesthesia Vital Sign Monitor	Dash 5000 	12" Display, Bedside w/GE Ohmeda SpO2 w/Hardwired Networking 1x ECG Cable 3/5 LD 3,6m, 1x 5/Lead Wire, 1x Nellcor Patient Cable, 1x Nellcor Compatible Finger Sensor, 1x Tubing adult/ paediatric, 1x Dura Cuf Adult Standard	GE Healthcare/ North America (Mexico)	4
4	Regulator, Suction w/ Canister Set	Master45 	Suction capacity 45l/min., vacuum range 10 to 85kPa, Glass-Cylinder/Piston System, Casing with: carrying handle, fitting rail, vacuum meter and vacuum regulator, Hydrophobic bacterial filter (plus 10 spare filters), 2x2L suction jar	Ardo/ Switzerland	4
5	Automatic External Defibrillator Monitor	LIFEPAK® 20e 	Manual defibrillation mode 1-2-3 operation and Automated External Defibrillator with Shock Advisory System to advise operator when it detects a shockable rhythm. LCD color matrix screen display allows 1st. channels to be viewed ECG and 2nd. channel cascading ECG with up to 8 seconds of ECG. with Standard Detachable Hard Paddles Adult & Pediatric, and Lithium Ion rechargeable internal battery with battery level indicator.	Physio-Control / USA	1
6	Infusion Pump, Single Channel	Graesby 3000 	Flowrate: 0.1-99.9 ml/hrs in 0.1ml increments, 1-999 ml/hrs in 1ml increments with occlusion pressure alarm.	Smith Medical/ UK	4
7	Bedhead Unit	OKI BASIC GAS 	Bed head unit Length: 1600mm for 1 bed extruded aluminium single trunking, epoxy painted in RAL colours, equipped with: - 1 x Indirect light 1x36W T8 230V 50Hz - 1 x Direct light 1x18W T8 230V 50Hz - 2 x Electrical sockets SCHUKO standard 16A WHITE - 1 x Switch for Indirect light - 1 x Switch for Direct light - 1 x RJ45 cat.5e data socket - 1 x Gas box for 3 gas outlets	LM Medical Division S.r.l./Italy	4
8	Emergency manual resuscitator- adult	Adult Silicone Bag-Valve-Mask 	Resuscitator complete with Silicone Universal Resuscitation Mask and Oxygen Reservoir System	O-TWO/ Canada	4
9	Emergency manual resuscitator- infants	Child Silicone Bag-Valve-Mask 	Resuscitator complete with Silicone Universal Resuscitation Mask and Oxygen Reservoir System	O-TWO/ Canada	4

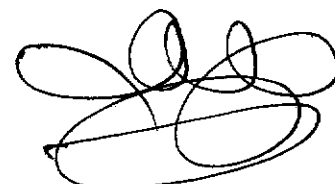


#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
10	Emergency manual resuscitator- neonates	Easy Grip® Silicone Bag- Valve-Mask 	Resuscitator Infant complete with Silicone Infant Resuscitation Mask & Oxygen Reservoir System in Cardboard Carton	O-TWO/ Canada	1
11	Kick buckets		Kick buckets/KICK BUCKET - Manufactured from 18/10 stainless steel. Mounted on 5 casters Ø 40 mm. Ø cm. 41x18 h. Length mt: 0,41 Width mt: 0,41 Height mt: 0,18	FAZZINI/Italy	4
12	Nurse stool		Nurse stool/REVOLVING STOOL - Plastic base with 5 casters. Variable height from 43 to 55 cm. Stainless steel seat. Length mt: 0,48 Width mt: 0,65	FAZZINI/Italy	2
13	Oxygen mask - Adult		O-Two Medical Technologies Inc. Silicone Universal Mask, Case/12	O-TWO/ Canada	1
14	Oxygen mask - pediatric		O-Two Medical Technologies Inc. Silicone Toddler/Child Mask, Case/12	O-TWO/ Canada	1
15	Oxygen mask - infant		O-Two Medical Technologies Inc. Silicone Infant Mask, Case/12	O-TWO/ Canada	1
16	Plastic chart holder	various	Plastic chart holder	FAZZINI/Italy	2
17	Mobile IV stand		Mobile IV stand/I.V. STAND ON CASTERS - Adjustable height from 160 to 220 cm. STAINLESS STEEL BASE - Foldable base with 5 casters. S.S. tube, 4 plastic hooks. Length mt: 1,17 Width mt: 0,32 Height mt: 0,14	FAZZINI/Italy	4
18	X-Ray viewer , double		X-Ray viewer , double/X-RAY FILM VIEWERS - Wall model. Constructed from enamelled sheet steel. Fluorescent cold light. Unbreakable white monochromatic diffuser with supporting device. Length mt: 0,8 Width mt: 0,43 Height mt: 0,91	FAZZINI/Italy	1
19	BED urine female		BED urine female plastic (quoted only bedpan)/FEMALE URINAL - Manufactured from 18/10 stainless steel. With handle. Length mt: 0,87 Width mt: 0,3 Height mt: 0,57	FAZZINI/Italy	4
20	BED urine male		BED urine male plastic (quoted only bottle)/MALE URINAL - Manufactured from 18/10 stainless steel. With handle. Length mt: 0,9 Width mt: 0,32 Height mt: 0,6	FAZZINI/Italy	4



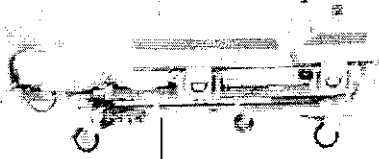

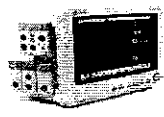


#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
21	Holder sack , free standing		Holder sack , free standing/SOILED LINEN TROLLEY - Chrome plated frame. Mounted on Ø 80 mm casters. Removable bag. Knock down construction. 1 Bag. Ø cm. 46 x 95 h. Length mt: 0,46 Width mt: 0,46 Height mt: 0,95	FAZZINI/Italy	4
22	Stainless steel pedal waste Bin sanelia 20L		Stainless steel pedal waste Bin sanelia 20L/WASTE BIN - Constructed from stainless steel 18/10. Removable inner container of plastic material. Capacity 20 lt. SIZE Ø cm. 25 x 63 H. Length mt: 0,29 Width mt: 0,29 Height mt: 0,45	FAZZINI/Italy	4

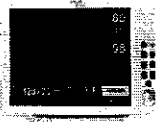








وحدة العناية التنفسية







Room to Room Medical Equipments BoQ & Specs
جدول الكميات و المواصفات للأجهزة الطبية في الغرف

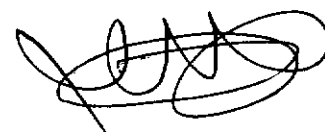
#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
1	Critical Care Bed	ELEGANZA 3XC 	<ul style="list-style-type: none"> * 4-section mattress platform, on 2 telescopic columns * height adjustment from 39,5 to 77,5 cm by actuator * Trendelenburg and reverse Trendelenburg 13 degrees by actuator * adjustment of backrest and thighrest by actuator * Ergoframe comfortable system of positioning * Mattress platform adapted for frequent X ray examinations, including C arm scanning * X ray transparent backrest * CPR mechanical unblocking of backrest * integrated bed extension + 8 cm / + 17 cm * removable plastic covers of the mattress platform * 4 castors 150mm Tente Integral, central control * safe working load 230 kg * external dimensions 223 x 104,5 cm with siderails up (102,5 cm with siderails down) * internal dimensions (mattress platform) 208 x 86 cm * mattress platform height adjustment 39,5 - 77,5 cm * mattress platform tilt adjustment +/-13 degrees 	Linet/Czech	4
2	I.C.U bed side cabinet & Over Bed table	ELEGANZA Classic 	A universal bedside cabinet made of metal, accessible from both sides, offering a drawer, bottom cabinet, and independently braked castors, with the dining board integrated in the cabinet's body.	Linet/Czech	4
3	Wall Mounted Patient Monitor	M5 patient monitor 	Integrated module frame with 5 slots, Arrhythmia/ST segment analysis, 8 waveforms channel, 120 hours graphic/list trending, Network interface, Peripheral devices interface (4 USB ports), 1 Lithium-ion battery, 12.1" LCD with anti-glare screen, Including the following Parameters :3/5 ECG, respiration, dual channel temp., NIBP, dual channel IBP, SpO2 with Adult accessory kit. and Wall Mount	Penlon/ UK	4









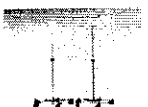




#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
3 alternative	Wall Mounted Patient Monitor	ARGUS LCX 	Light weight and small intermediate care patient monitor with bright 15" TFT screen and easy-to-use interface by trim knob. For use with adult, pediatrics and neonatal Alarm monitoring on all parameters with Basic Arrhythmia Asystole and V-Fibrillation Trend storage for 24 hours, with ECG, SpO2, NIBP, IBP and TEMP connection with Adult accessory kit. and Wall Mount	Schiller A.G./ Switzerland/ France	4
3 alternative	Anesthesia Vital Sign Monitor	Dash 5000 	12" Display, Bedside w/GE Ohmeda SpO2 w/Hardwired Networking 1x ECG Cable 3/5 LD 3,6m , 1x 5/Lead Wire , 1x Nellcor Patient Cable , 1x Nellcor Compatible Finger Sensor , 1x Tubing adult/ paediatric , 1x Dura Cuf Adult Standard	GE Healthcare/ North America (Mexico)	4
4	Regulator, Suction w/ Canister Set	Master45 	Suction capacity 45l/min., vacuum range 10 to 85kPa, Glass-Cylinder/Piston System, Casing with: carrying handle, fitting rail, vacuum meter and vacuum regulator, Hydrophobic bacterial filter (plus 10 spare filters), 2x2L suction jar	Ardo/ Switzerland	4
5	Critical Care Ventilator Adult/Pediatric	ICU-5000D 	Adult and paediatric ventilator with tidal volume range of 20-2000mL. Ventilation Modes: manual, VCV, PCV, SIMV+VCV, SIMV+PCV, PSV, SPONT and BIPAP. Loops: volume-pressure, flow-volume and flow-pressure during real-time monitoring. 15 inch LCD, touch screen and screen arm assembly. Including: , Humidifier, Trolley, SpO2 Module, CO2 Module(Mainstream). 2 reserve batteries that is able to be used for 60mins after fully charged. Including Reusable circuits for Adults and paediatrics.	Penlon/ UK	1
5 alternative	Critical Care Ventilator Adult/Pediatric	HAMILTON-C2 	Adult and paediatric ventilator with tidal volume range of 2 to 2000 ml. Ventilation Modes: (S)CMV+/APVcmv, SIMV+/APVsimv, PCV+ , SPONT, ASV,PSIMV+ , APRV, DuoPAP, NIV-ST, nCPAP-PS2. Loops: P-V, V-Flow, P-Flow, V-FCO2. 10.4 inch, TFT color, backlit, touchscreen. Including: Capnography, Humidifier,Trolley, SpO2 , Li-Ion battery. Including Reusable circuits for Adults and paediatrics.	Hamilton/ Switzerland	1
5 alternative	Critical Care Ventilator Adult/Pediatric	Engstrom Pro 	Adult and paediatric ventilator with tidal volume range of 2 to 2000 ml. Ventilation Modes:(VCV)(PCV)(PCV-VG)(SIMV-VC)(SIMV-PC). 30.5 cm/12 inch full color LCD adjustable viewing angle. Including: Battery back-up,Nebulizer, Reusable circuits for Adults and paediatrics.	GE Healthcare/ USA	1
6	Automatic External Defibrillator Monitor	LIFEPAK® 20e 	Manual defibrillation mode 1-2-3 operation and Automated External Defibrillator with Shock Advisory System to advise operator when it detects a shockable rhythm. LCD color matrix screen display allows 1st. channels to be viewed ECG and 2nd. channel cascading ECG with up to 8 seconds of ECG. with Standard Detachable Hard Paddles Adult & Pediatric, and Lithium Ion rechargeable internal battery with battery level indicator.	Physio-Control / USA	1



#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
7	Infusion Pump, Single Channel	Graesby 3000 	Flowrate: 0.1-99.9 ml/hrs in 0.1ml increments, 1-999 ml/hrs in 1ml increments with occlusion pressure alarm.	Smith Medical/UK	4
8	Critical Care Ventilator Neonates	HAMILTON-C2 	Trolley for the HAMILTON-C2 Tubing Support arm with quick-lock for the HAMILTON-C2 HOSE, OXYGEN PPLY, WHITE, ID 6.5 MM, 4M HAMILTON-C2 language kit, English Power cord, British angled-plug HAMILTON-C2 / C1 DISS connector O2 Breathing circuit Neonatal flow sensor neonatal single use box of 10	Hamilton/Switzerland	1
8 alternative	Critical Care Ventilator Neonates	Engstrom Care Station. 	Offers complete range of ventilation modes, with non-invasive ventilation capability and active exhalation valve that allows spontaneous breathing in all modes. The software offers the following modes of ventilation:- Volume Control ventilation (VCV)- Pressure control ventilation (PCV)- Pressure control ventilation- Volume guarantee (PCV-VG) - SIMV-VC + PS- SIMV- PC+ PS- BiLevel mode- CPAP/PSV- Apnea back up (active in CPAP/PSV and BiLevel modes)Tidal volume range 20-2000 ml with capability of 200 lpm peak inspiratory flow. Triggering: flow and pressure.Includes the following procedures:- Manual Breath- Intrinsic PEEP measurement- Spontaneous breathing trial (SBT)- P0.1 maneuver- 100 % O2 measure- Inspiratory Hold - Expiratory HoldSpirometry is included as standard with display of 3 different loops P/V, F/P, F/V and pulmonary mechanics.Graphic and numeric trending of all set and measured parameters up to 336 hours, the system also trends all alarms, error codes and last completed calibration.	GE Healthcare/USA	1
9	Bedhead Unit	OKI BASIC GAS 	Bed head unit Length: 1600mm for 1 bed extruded aluminium single trunking, epoxy painted in RAL colours, equipped with: - 1 x Indirect light 1x36W T8 230V 50Hz - 1 x Direct light 1x18W T8 230V 50Hz - 2 x Electrical sockets SCHUKO standard 16A WHITE - 1 x Switch for Indirect light - 1 x Switch for Direct light - 1 x RJ45 cat.5e data socket - 1 x Gas box for 3 gas outlets	LM Medical Division S.r.l./Italy	4
10	Emergency manual resuscitator- adult	Adult Silicone Bag-Valve- 	Adult Silicone Bag-Valve-Mask Resuscitator complete with Silicone Universal Resuscitation Mask and Oxygen Reservoir System	O-TWO/Canada	4
11	Emergency manual resuscitator- infants	Child Silicone Bag-Valve- 	Child Silicone Bag-Valve-Mask Resuscitator complete with Silicone Universal Resuscitation Mask and Oxygen Reservoir System	O-TWO/Canada	4






#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
12	Emergency manual resuscitator-neonates	Easy Grip® Silicone Bag- 	Easy Grip® Silicone Bag-Valve-Mask Resuscitator Infant complete with Silicone Infant Resuscitation Mask & Oxygen Reservoir System in Cardboard Carton	O-TWO/Canada	1
13	Kick buckets		Kick buckets/KICK BUCKET - Manufactured from 18/10 stainless steel. Mounted on 5 casters Ø 40 mm. Ø cm. 41x18 h. Length mt: 0,41 Width mt: 0,41 Height mt: 0,18	FAZZINI/Italy	4
14	Nurse stool		Nurse stool/REVOLVING STOOL - Plastic base with 5 casters. Variable height from 43 to 55 cm. Stainless steel seat. Length mt: 0,48 Width mt: 0,65	FAZZINI/Italy	2
15	Oxygen mask - Adult		O-Two Medical Technologies Inc. Silicone Universal Mask, Case/12	O-TWO/Canada	1
16	Oxygen mask - pediatric		O-Two Medical Technologies Inc. Silicone Toddler/Child Mask, Case/12	O-TWO/Canada	1
17	Oxygen mask - infant		O-Two Medical Technologies Inc. Silicone Infant Mask, Case/12	O-TWO/Canada	1
18	Plastic chart holder	various	Plastic chart holder	FAZZINI/Italy	2
19	Mobile IV stand		Mobile IV stand/I.V. STAND ON CASTERS - Adjustable height from 160 to 220 cm. STAINLESS STEEL BASE - Foldable base with 5 casters. S.S. tube, 4 plastic hooks. Length mt: 1,17 Width mt: 0,32 Height mt: 0,14	FAZZINI/Italy	4
20	X-Ray viewer , double		X-Ray viewer , double/X-RAY FILM VIEWERS - Wall model.Constructed from enamelled sheet steel. Fluorescent cold light. Unbreakable white monochromatic diffuser with supporting device. Length mt: 0,8 Width mt: 0,43 Height mt: 0,91	FAZZINI/Italy	1
21	BED urine female		BED urine female plastic (quoted only bedpan)/FEMALE URINAL - Manufactured from 18/10 stainless steel. With handle. Length mt: 0,87 Width mt: 0,3 Height mt: 0,57	FAZZINI/Italy	4
22	BED urine male		BED urine male plastic (quoted only bottle)/MALE URINAL - Manufactured from 18/10 stainless steel. With handle. Length mt: 0,9 Width mt: 0,32 Height mt: 0,6	FAZZINI/Italy	4
23	Holder sack , free standing		Holder sack , free standing/SOILED LINEN TROLLEY - Chrome plated frame. Mounted on Ø 80 mm casters. Removable bag. Knock down construction. 1 Bag. Ø cm. 46 x 95 h.	FAZZINI/Italy	4











#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
24	Stainless steel pedal waste Bin sanelia 20L		Stainless steel pedal waste Bin sanelia 20L/WASTE BIN - Constructed from stainless steel 18/10. Removable inner container of plastic material. Capacity 20 lt. SIZE Ø cm. 25 x 63 H. Length mt: 0,29 Width mt: 0,29 Height mt: 0,45	FAZZINI/Italy	4




وحدة تعقيم قسم العمليات

Room to Room Medical Equipments BoQ & Specs

جدول الكميات و المواصفات للأجهزة الطبية في الغرف

#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
1	Washer/ Disinfector	Reliance® Synergy 	STERIS Reliance® Synergy™ Washer/Disinfector: Double power doors, three chemical injection pumps (Enzyme, chemical detergents and lubricant) included extension tubes (50 Ft); top utility connection. With vented drying system, electric heated.	Steris/USA	1
2.1	Washer Loading Accessories	Washer Loading Accessories	Washer Disinfector Transfer Cart for loading / Unloading	Steris/USA	2
2.2		Washer Loading Accessories	4-Level inst. Manifold Rack for total of 8 full size Instrument trays.	Steris/USA	2
2.3		Washer Loading Accessories	Instrument Mesh DIN Trays, Size 485X250X50MM	Steris/USA	16
3	Worktable	Amsco ss 	Amsco ss Worktable base 30x30x60	Steris/USA	2
4	Clean up counter with 3 sink	Amsco clean up counter	Amsco clean up counter with 3 sinks, painted steel	Steris/USA	1
5	Pass thru Window	Pass thru Window	Pass thru Window 	Steris/USA	1
6	Set-Down Counter	Set-Down Counter	Set-Down Counter 	Steris/USA	1
7	Steam Sterilizer (250 Liters) it dep. On the final lay out design to chose one of the two models	Century 	Steam Sterilizer 250 Liters Double Door, Recessed One Wall. STERIS Vacumatic Small Century Steam Sterilizer, Double Sliding Door, Recessed One Walls Unit, Chamber Size: 20x20x38" = 250 Liters. With Built-in 30Kw Steam Generator. 380Volts, 3-Phase.	Steris/USA	1
		Century 	OR Steam Sterilizer 250 Liters Single Door, Cabinet. STERIS Vacumatic Small Century Steam Sterilizer, Double Sliding Door, Recessed One Walls Unit, Chamber Size: 20x20x38" = 250 Liters. With Built-in 30Kw Steam Generator. 380Volts, 3-Phase.	Steris/USA	1



#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
8	Sterilizers Loading Accessories	Sterilizers Loading Accessories	Sterilizer Loading Rack and two Shelves for double door unit.	Steris/USA	1
8 alternative	Sterilizers Loading Accessories	Sterilizers Loading Accessories	Sterilizer Loading Rack and two Shelves for single door unit.	Steris/USA	1
9	Worktable	Worktable 	Amsco ss Worktable base 30x30x60	Steris/USA	1
10	Leaflet Sealer	Leaflet Sealer	Rennco Liftsealer	Steris/USA	1
11	Storage Shelves	Storage Shelves	Wrap rack (the dimention based on the storage room design)	METRO/ USA	as per the design





Electromechanical Systems-Equipment List



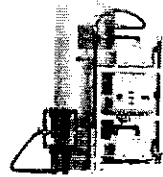
قائمة أجهزة المنظومات الكهروميكانيكية

#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
1	UPS System	as per the design	Capacity and Model is according to the final design approved by the IMoH for 20 minutes to cover the critical care medical equipments ,the battery is acidic closed type integrated inside the cabinet.	as per the contract	1
2	Electricity Stabilizer (Voltage regulator)	as per the design	Voltage regulator according the requirements of the final design approved by IMoH.	as per the contract	1
3	Air Conditioning Systems	as per the design	Air Conditioning Systems (Cooling & Heating) according the requirements of the final design approved by IMoH.	as per the contract	1
4	Reverse Osmosis RO	as per the design	Reverse Osmosis WATER TREATMENT UNIT with water tank & boosting pump according the requirements of the final design approved by IMoH.	as per the contract	1
5	Electricity Generation System	as per the design	Capacity is according to the final design approved by the IMoH.	as per the contract	1
6	Nurse Call System	as per the design	Model is according to the final design approved by the IMoH.	as per the contract	1
7	Fire Alarm System	as per the design	Model is according to the final design approved by the IMoH.	as per the contract	1
8	Master Clock	as per the design	Model is according to the final design approved by the IMoH.	as per the contract	1
9	Telephone & Data Cabeling System	as per the design	Model is according to the final design approved by the IMoH.	as per the contract	1



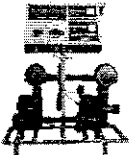


Medical Gases Systems-Equipment List

قائمة أجهزة منظومات الغازات الطبية

#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
1	Oxygen Generator	<p>Duplex OXYGEN GENERATORS Roxy 50</p> 	<ul style="list-style-type: none"> - Flow rate : 2 x 5 Nm³/h (2 x 83,3 L/mn) - Purity : 93% +/- 3% - Output pressure : 4.5 to 6.0 bar <p>Comprising:</p> <ul style="list-style-type: none"> • 2 x lubricated screw Air Compressor: 121 m³/h; 11 kW; 3 Ph. 400 V ; 50 Hz • 2 x Refrigeration Air Dryer 182 m³/h, equipped with oil separator filters of 0.01 µ and anti-dust filters of 1 µ. • 2 x Air Receiver Vertical Fully Galvanized inside/outside; Volume: 150 Liters • 2 x Oxygen Concentrator with 2 molecular sieve beds, ergonomic command & control including PLC, set of electro-pneumatic valves, Paramagnetic Oxygen Analyzer with automatic shutdown in case of low purity, dew point analyzer, flow rate indication, pressure indication, remote control, alarms • 2 x Oxygen Receiver, Vertical, Fully Galvanized inside/ outside, Special Oxygen, All safety accessories, Volume: 150 Liters <p>Rifair high pressure filling system RHP 53</p> <ul style="list-style-type: none"> • High pressure oxygen compressor for cylinder filling • Discharge pressure to 2 200 PSIG (152 BarG) • Flow Rate; 2.0 SCFM (120 SCFH; 3.2 Nm³/hr.) - 1 x fixed Rack of 12 cylinders "B50" with filling and supply connections and alarms for oxygen backup to supply the network in case of maintenance of the oxygen generators or power failure. 	Rifair/ France	1
2	Medical Air Plant	<p>DSCM 5-10</p> 	<p>Duplex medical Air plant : DSCM 3-10 : 2 x 17 m³/h</p> <p>Comprising:</p> <ul style="list-style-type: none"> 2 x Lubricated rotary screw compressor 19 m³/h; 3 kW; 3Ph. 400V; 50 Hz 1 x Homogenizer Air Tank, galvanized, 500 L vertical with safety equipment 1 x double desiccant Air Dryer with appropriate set of filters 1 x Regulation and control panel with digital display 1 x Set of Flexible hoses and connections 	Rifair/ France	1
3	Medical Vacuum Plant	<p>TRIOVAC 60</p> 	<p>Triplex medical Vacuum plant TRIOVAC 60: 3 x 100 m³/h</p> <p>Comprising:</p> <ul style="list-style-type: none"> 3 x Lubricated rotary vane vacuum pump 60 m³/h; 3 Ph. 400V; 50 Hz 1 x Homogenizer Tank 500 Litres, galvanized, vertical with safety equipment 1 x double antibacterial Filtration 1x Regulation and control panel with digital display 1 x Set of Flexible hoses and connections 	Rifair/ France	1



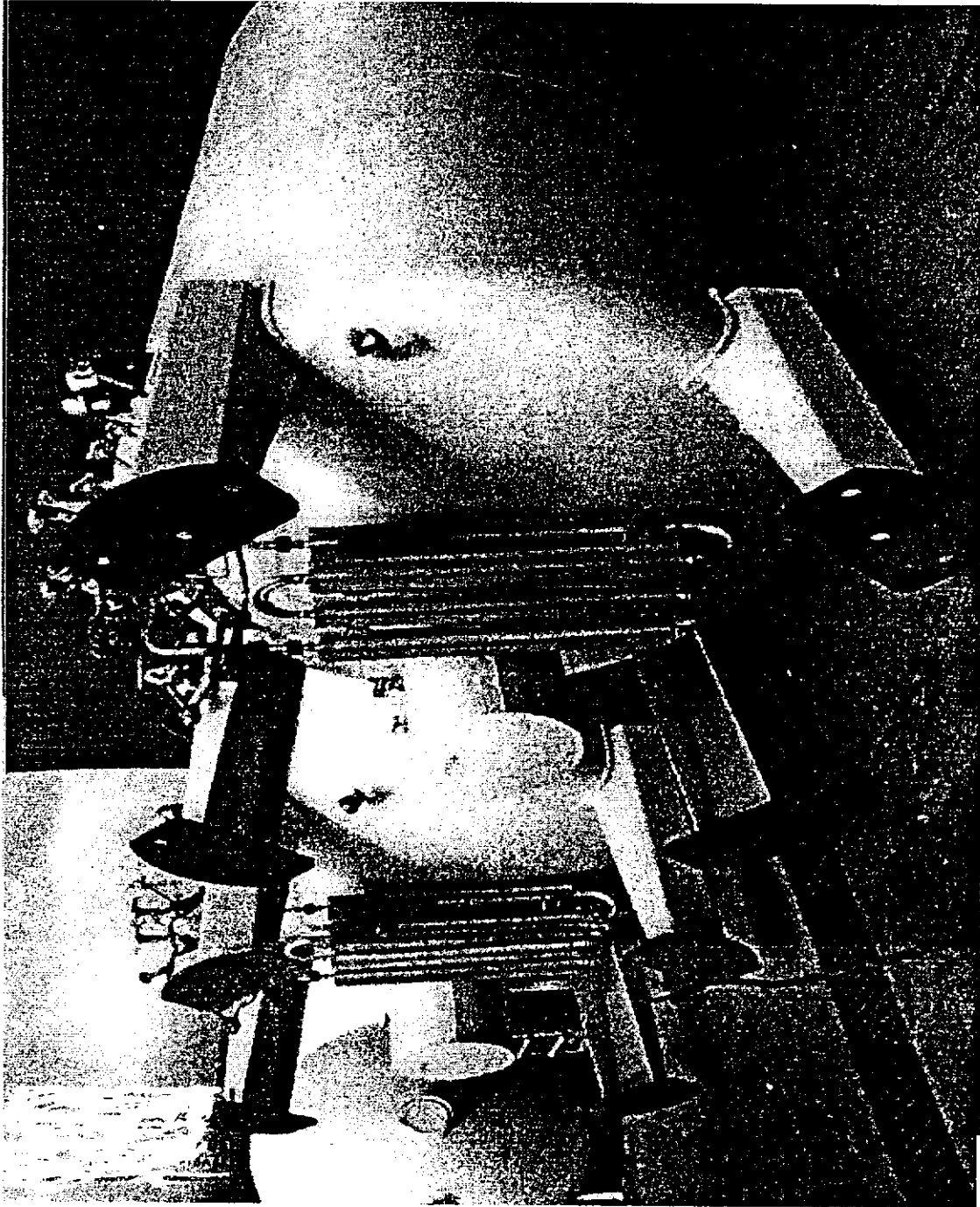


#	Item name	Product	Brief Description	Origin of Goods Production	Qty.
4	AGSS system	DUOGESS 70 	2 x Side channel vacuum pumps - Flow rate: 2 x 75 m³/hr. - Vacuum Level: -105 Bar - Motor power: 2 x 0.37 kW - Skid mounted plant - Voltage Rate: 215-310/370-530 V; 50Hz	Rifair/ France	1
5	Medical Gases Network	According to the final design approved by the IMoH  <i>Network accessories</i>	Full equipments for network according to the final design approved by the IMoH including: medical grade pipes, outlets, valves, alarms, manifolds for N2O (2X3), regulators and fittings.	Rifair/ France	According to the final design approved by the IMoH
6	Generators Container	According to the final design approved by the IMoH 	CONTAINERS to hold the Oxygen Generator, Air Plant, vacuum Plant & AGSS in the site.	Rifair/ France	1

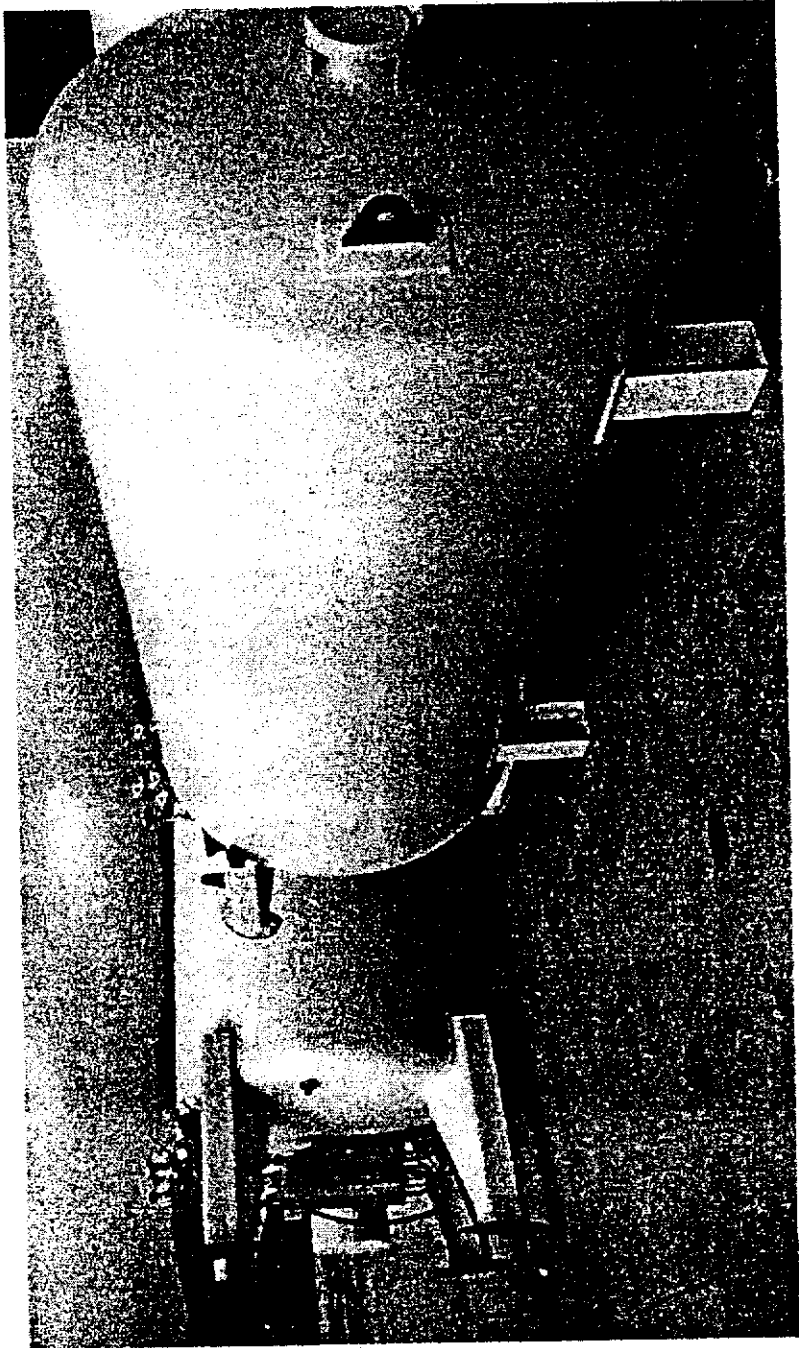




مواصفات خزان الأوكسجين السائل



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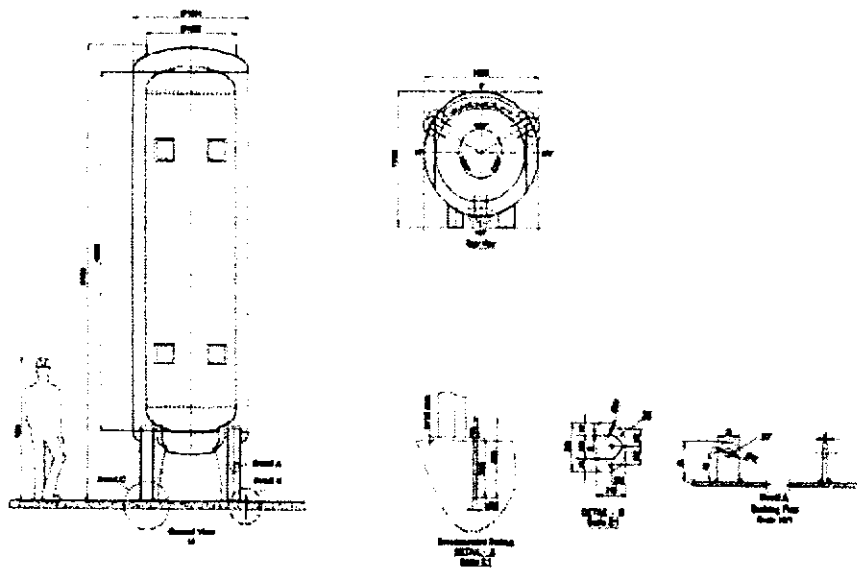
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General DATA	
Design regulations	PED 97/23/EC
Design code	EN 13458-2 Annex C
Inspection	TBD
Equipment No/Name	TBD
Client Project	TBD
Project No	TBD
Order No	000000000000

DESIGN DATA		
	INNER VESSEL (1,4301&1,4307)	OUTER VESSEL (1,008)
Medium	LOX	Perlite & Vacuum insulation
Design pressure	17 barg	1 barg
operation pressure	to 16 barg	-
MAWP	16 barg	1 barg
Design temperature min/max	-196/ +37 c	-20/ +50 c
Operating temperature	-196 c	-
Test Type (pneumatic or Hydro)	Hydrostatic (pt=25.5 barg)	-
Water (Gross) capacity	5100 liters	10310 liters
Net(%95) capacity	4850 liters	-
capacity vacuum space	-	5270 liters
Join efficiency	1	-
NDE REQUIREMENT	%100 RT	-
IMPACT TEST	N/A	-
LETHAL SUBSTANCE	NO	-
Corrosion allowance	As per code	As per code
PWHT	None, not required per code	None, not required per code

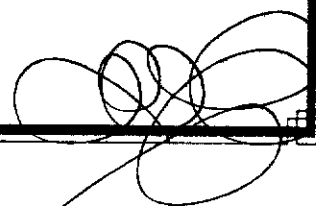
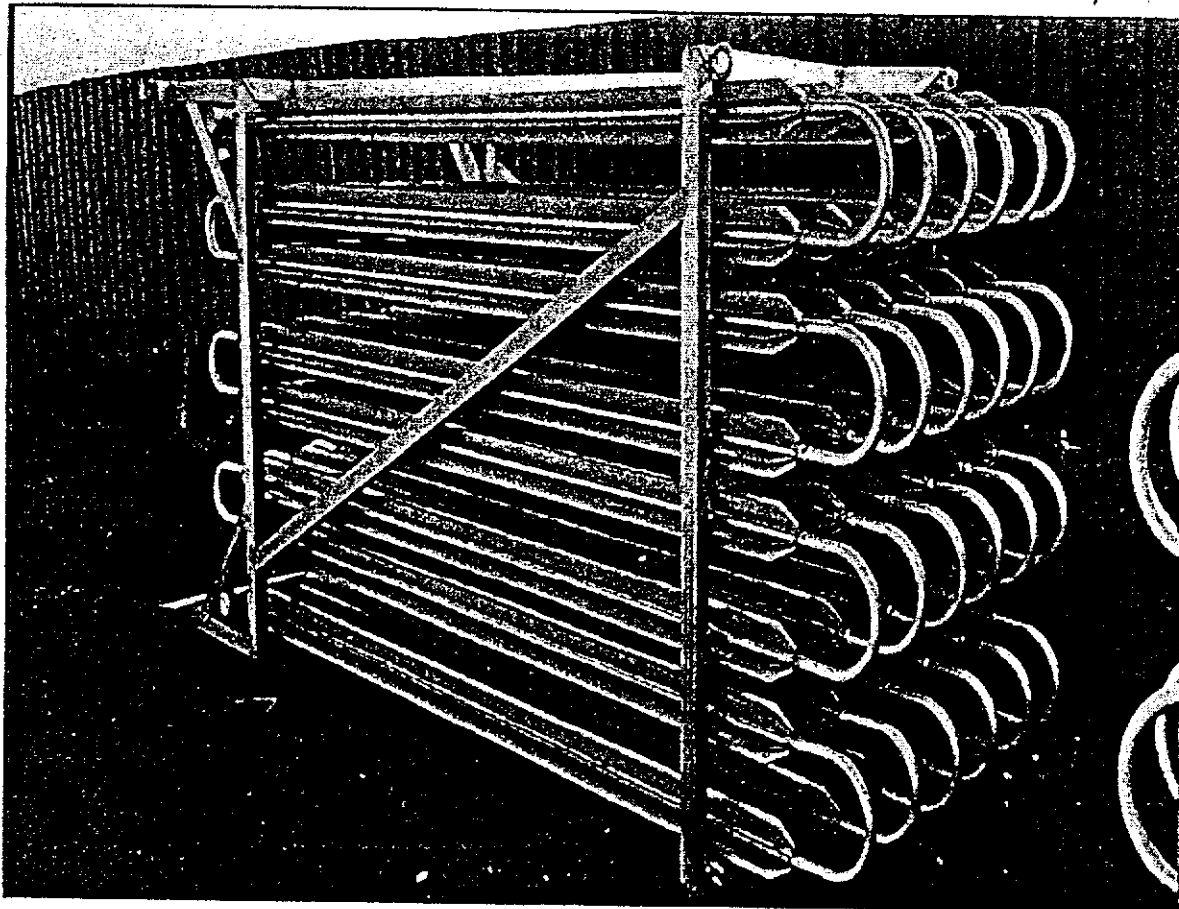
WEIGHT AND LOADING DATA (APPROXIMATELY)					
	Complete vessel	inner vessel	Outer vessel	Perlite	Legs, valve, pipes vs.
Total weight	4360 kg	760 kg	1050 kg	500 kg	2050 kg
Total payload	5525 kg LOX (@ %95 filling rate)				
total weight	9885 kg				

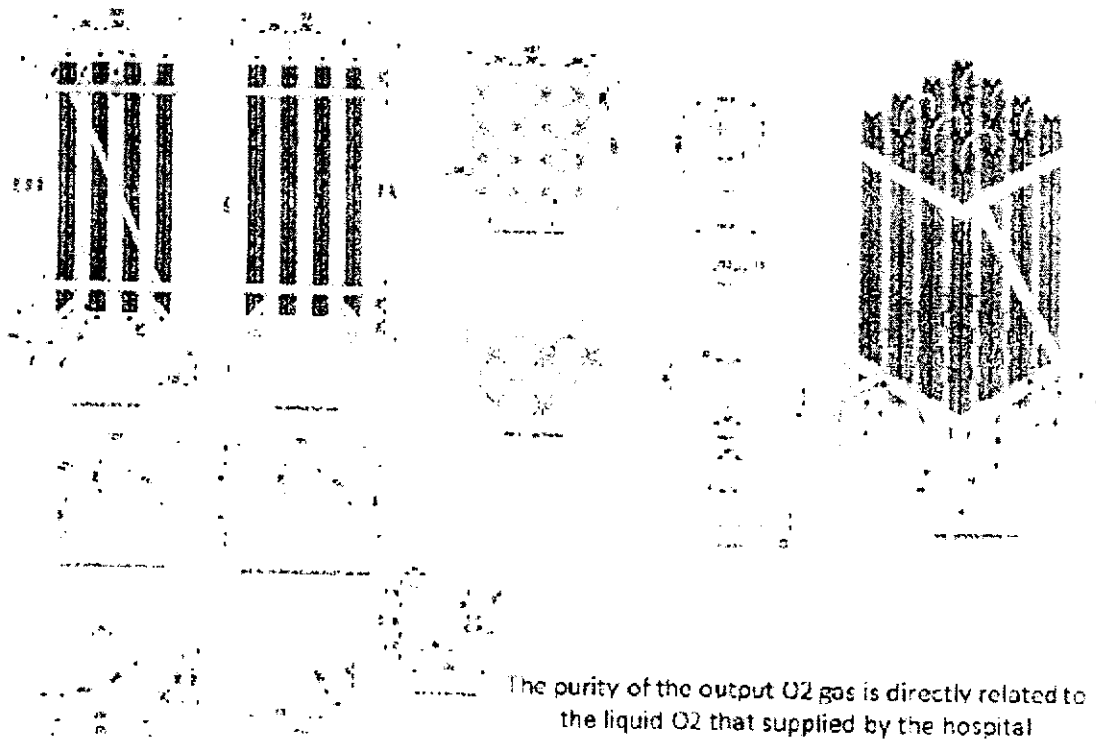


The purity of the output O₂ gas is directly related to
the liquid O₂ that supplied by the hospital

Made in Turkey

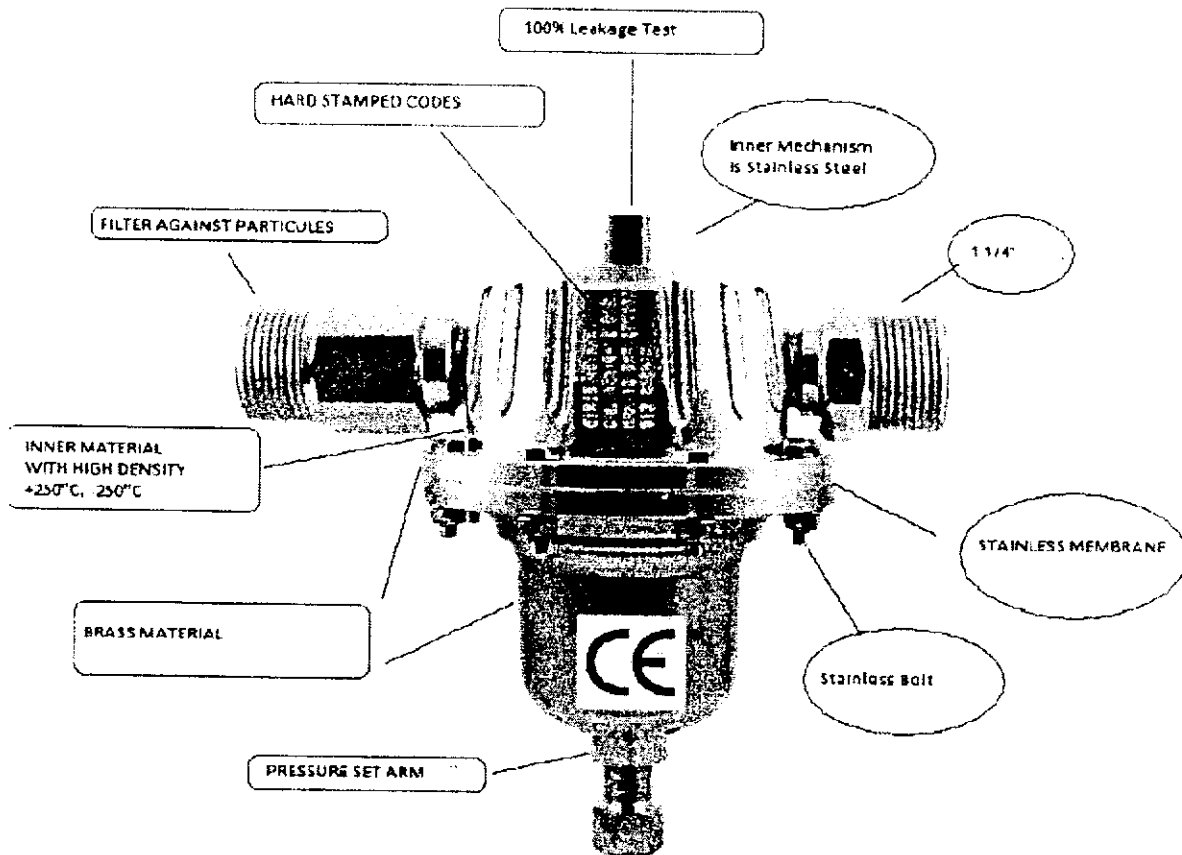
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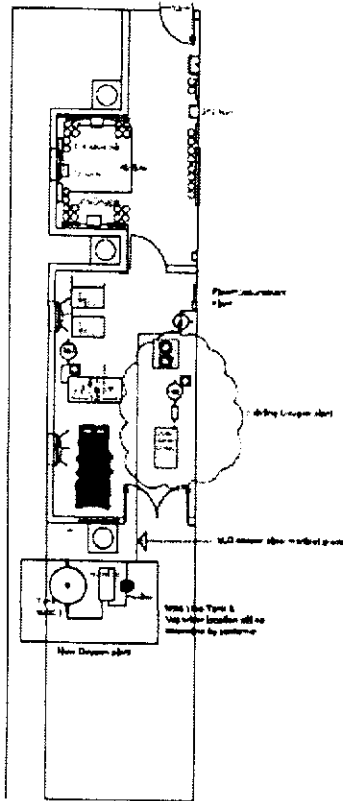




The purity of the output O2 gas is directly related to the liquid O2 that supplied by the hospital







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Non-Medical Furniture-List

قائمة الأثاث الغير طبي

#	Room	Brief Description	Origin of Goods Production	Qty.
1	Reception Counter	Computer with LCD screen	As per the contract	1
2		Clock, Battery Operated wall mounted	As per the contract	1
3		Notice Board	As per the contract	1
4		Telephone Set	As per the contract	1
5		Chairs, Swivel Arm	As per the contract	1
6		Counter for the reception	As per the contract	1
7		Letter Tray	As per the contract	3
8		Bin, Waste Paper	As per the contract	2
9		Printer, Laser	As per the contract	1
10	Staff Lounge	Television Wall Mounted	As per the contract	1
11		Notice Board	As per the contract	1
12		Clock, Battery Operated wall mounted	As per the contract	1
13		Telephone Set	As per the contract	1
14		Hooks, 3 Units	As per the contract	1
15		Sofa, 2-Seater, Class 2	As per the contract	2
16		Sofa, 3-Seater, Class 2	As per the contract	2
17		Tables, Coffee, Square	As per the contract	1
18		Tables, Low	As per the contract	2
19	Meeting Room	LCD screen with TV Tuner	As per the contract	1
20		Notice Board	As per the contract	1
21		Clock, Battery Operated wall mounted	As per the contract	1
22		Telephone Set	As per the contract	1
23		Hooks, 3 Units	As per the contract	1
24		Chairs, Swivel Arm	As per the contract	8
25		Flip Chart	As per the contract	1
26		Cabinets, 2 compartment	As per the contract	2
27		Meeting Table, 8 Persons	As per the contract	1
28		Multimedia Data show	As per the contract	1
29		Projection Screen, Wall Mounted	As per the contract	1
30		Magnetic Board, Large	As per the contract	1
31	Staff Changing	Holder sack, free standing	As per the contract	2
32		HOOKS, 5 UNITS	As per the contract	1
33		Clock, Battery Operated wall mounted	As per the contract	1
34		Lockers, changing, 2 compartment	As per the contract	3
35		Mirror, full length	As per the contract	1
36		Carts, linen /laundry	As per the contract	1
37	Store Room	BIN, Waste paper	As per the contract	1
38		Telephone Set	As per the contract	1
39		Shelving, wire, 500mm deep	As per the contract	6
40		Distribution Trolley	As per the contract	2





Surgical Suits Project Training Program
برنامج تدريب مشروع الصالات الجراحية

#	Category	Doctor	Nurse	Engineer
1	Medical and Surgical Equipments	4 persons	4 persons	4 persons
2	OR IT and Control Solution	4 persons	4 persons	4 persons
3	Electromechanical Equipments	-	-	4 persons
4	Disinfection & Sterilization Systems	-	4 persons	4 persons
5	Medical Gases System	-	4 persons	4 persons

* Training Programs (service and application) will be locally arranged for one week for the above mentioned categories and specialties after the completion of the installation and the commission of each related systems in the surgical suits during the contract period.

* Additional Training Lectures can be arranged at "Training Center" in HT Service Center in Baghdad on request.



