## Site - Name : MAMOUN

Code	Item Description	Unit	Qty.	Complement ary Items
07-01-01100	SDH Microwave Radio Equipment, STM-1, 13GHZ(2+1) Frequency Diversity Radio Terminal All Complete with Transmitters, Receivers, 128 QAM Modems Modules ,Protection Switch, Engineering order wire channel, 2Mb/s auxiliary traffic, Interface to central Network management, Peripherals ( Lap Top PC , ETC), Installed in Rack with 48V. d/c unit (duplicated).	Lot	5	
07-01-01101	-Installation materials.	Lot	5	
07-01-01102	-Spare parts & spare units.	Lot	5	
07-01-01103	-Documentation.	Set	1	
07-01-01104	Microwave Parabolic Dish (1.8m., 2.4m.)Antenna with (one/ two)Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	5	
07-01-01105	-Microwave Elliptical waveguide Feeder Run, 11/13 GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	5	
07-01-01106	-Medium Capacity Dehydrator.	Unit	1	
07-01-01107	-10% Spares.	Lot	1	
07-01-01108	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(3+1)configuration, 48V, 250Ah Lead- Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-01-01109	-Spare Parts & Spare Units.	Lot	1	
07-01-01110	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	
07-01-01111	AC Power Plant Including Diesel Engine Generator Capacity 50 KVA, Dual Set, all complete with, Daily Fuel Tank, Fan, Piping, Control cubicle & Alarms, Installation Materials, Documentation & Tools	Lot	1	
07-01-01112	-Spare parts & PCB's.	Lot	1	
07-01-01113	-SDH Multiplex Equipment Including STM-16 Mutliplexer, STM-4,STM-1Multiplexer Subrack with redundant common units ADM, Terminal configuration, Tributary & Elect. Aggregate Cards (3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s) Access &Connection Modules, Full Matrix (duplicated),Auxiliary /Engineering order wire, Installation Materials & Tools, Racks with power supply unit (duplicated) and cable head, Digital Distribution Frames & Documentation for each.	Lot	1	

07-01-01114 07-01-01115 07-01-01116	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units, cable head & Digital Distribution Frames. -Spare parts & spare units. -Installation materials & tools.	Lot	1	
07-01-01117	-Network Management Equipment consisting of Central Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials & Tools, Documentation & Spare Parts for each item.	Lot	1	
07-01-01118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-01119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-01120 07-01-01121 07-01-01222	<ul><li>-Factory Training Abroad.</li><li>-Training In Iraq.</li><li>-Supervision Services (Supplier Expert).</li></ul>	Trainee Trainee Expert	8 8 2	

### Site - Name : SINEK

Code	Item Description	Unit	Qty.	Com	plement
				ary	Items
07-01-02100	SDH Microwave Radio Equipment, STM-1, 13GHZ(2+1) Frequency Diversity Radio Terminal All Complete with Transmitters, Receivers, 128 QAM	Lot	8		
	Modems Modules ,Protection Switch, Engineering order wire channel, 2Mb/s auxiliary				
	traffic, Interface to central Network management,				
	Peripherals ( Lap Top PC , ETC), Installed in				
07.01.02101	Rack with 48V. d/c unit (duplicated).	<b>T</b> ,	0		
07-01-02101	-Installation materials.	Lot	8		
07-01-02102	-Spare parts & spare units.	Lot	8		
07-01-02103	-Documentation.	Set	1		
07-01-02104	Microwave Parabolic Dish (1.8m., 2.4m.)Antenna with	Lot	8		
	(one/ two)Polarization's all complete with Connector				
	Flanges, Tower Attachment,				
	Installation materials & Documentation.	-			
07-01-02105	-Microwave Elliptical waveguide Feeder Run, 11/13	Lot	8		
	GHZ band all complete with Pressure Window,				
	Fixture clamps, Earthing Kits, Installation materials &				
07.01.00106	Documentation.	<b>T</b> T •	1		
07-01-02106	-Medium Capacity Dehydrator.	Unit	1		
07-01-02107	-10% Spares.	Lot	1		
07-01-02108	-DC Power Plant Including Modular Switched	Lot	1		
	Rectifier system 48V/30A. module(3+1)configuration,				
	48V, 250Ah Lead- Acid Sealed- Batteries (2sets),				
	Cabinets, Installation materials, cables, tools &				
07-01-02109	Documentation.	Lot	1		
	-Spare Parts & Spare Units.	Lot	1		
07-01-02110	-Air Conditioners, Duplicated 18000 / 24000 BTU	Lot	2		
	Unit All Complete With, Piping & installation materials				
07.01.02111	& fixtures, Spare parts & Documentation.	T - 4	1		
07-01-02111	AC Power Plant Including Diesel Engine Generator	Lot	1		
	Capacity 50 KVA, Dual Set, all complete with, Daily				
	Fuel Tank, Fan, Piping, Control cubicle & Alarms, Installation Materials, Documentation & Tools				
07-01-02112	-Spare parts & PCB's.	Lot	1		
07-01-02112	-SDH Multiplex Equipment Including STM-16		1		
07-01-02115	Multiplexer, STM-4,STM-1Multiplexer Subrack with	Lot	1		
	redundant common units ADM, Terminal				
	configuration, Tributary & Elect. Aggregate Cards				
	(3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s)				
	Access &Connection Modules, Full Matrix				
	(duplicated), Auxiliary /Engineering order wire,				
	Installation Materials & Tools, Racks with power				
	supply unit (duplicated ) and cable head, Digital				

		1		
	Distribution Frames & Documentation for each.			
07-01-02114	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units,	Lot	1	
05.01.00115	cable head & Digital Distribution Frames.			
07-01-02115	-Spare parts & spare units.			
07-01-02116	-Installation materials & tools.			
07-01-02117	-Network Management Equipment consisting of Central Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials &	Lot	0	
	Tools, Documentation & Spare Parts for each item.			
07-01-02118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-02119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-02120	-Factory Training Abroad.	Trainee	8	
07-01-02121	-Training In Iraq.	Trainee	8	
07-01-02222	-Supervision Services (Supplier Expert).	Expert	2	

### Site - Name : ALWIYA

Code	Item Description	Unit	Qty.	Complement
				ary Items
07-01-03100	SDH Microwave Radio Equipment, STM-1,	Lot	4	
	13GHZ(2+1) Frequency Diversity Radio Terminal All			
	Complete with Transmitters, Receivers, 128 QAM			
	Modems Modules ,Protection Switch,			
	Engineering order wire channel, 2Mb/s auxiliary			
	traffic, Interface to central Network management,			
	Peripherals ( Lap Top PC , ETC), Installed in			
	Rack with 48V. d/c unit (duplicated).			
07-01-03101	-Installation materials.	Lot	4	
07-01-03102	-Spare parts & spare units.	Lot	4	
07-01-03103	-Documentation.	Set	1	
07-01-03104	Microwave Parabolic Dish (1.8m., 2.4m.) Antenna with	Lot	4	
	(one/ two)Polarization's all complete with Connector			
	Flanges, Tower Attachment,			
	Installation materials & Documentation.			
07-01-03105	-Microwave Elliptical waveguide Feeder Run, 11/13	Lot	4	
	GHZ band all complete with Pressure Window,			
	Fixture clamps, Earthing Kits, Installation materials &			
	Documentation.			
07-01-03106	-Medium Capacity Dehydrator.	Unit	1	
07-01-03107	-10% Spares.	Lot	1	
07-01-03108	-DC Power Plant Including Modular Switched	Lot	1	
	Rectifier system 48V/30A. module(3+1)configuration,			
	48V, 250Ah Lead- Acid Sealed- Batteries (2sets),			
	Cabinets, Installation materials, cables, tools &			
07.01.02100	Documentation.	т.	1	
07-01-03109	-Spare Parts & Spare Units.	Lot	1	
07-01-03110	-Air Conditioners, Duplicated 18000 / 24000 BTU	Lot	2	
	Unit All Complete With, Piping & installation materials			
07.01.00111	& fixtures, Spare parts & Documentation.	<b>T</b> .	1	
07-01-03111	AC Power Plant Including Diesel Engine Generator	Lot	1	
	Capacity 50 KVA, Dual Set, all complete with, Daily			
	Fuel Tank, Fan, Piping, Control cubicle & Alarms,			
07.01.02112	Installation Materials, Documentation & Tools	T et	1	
07-01-03112	-Spare parts & PCB's.	Lot	1	
07-01-03113	-SDH Multiplex Equipment Including STM-16	Lot	1	
	Mutliplexer, STM-4,STM-1Multiplexer Subrack with redundant common units ADM, Terminal			
	,			
	configuration, Tributary & Elect. Aggregate Cards (3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s)			
	Access &Connection Modules, Full Matrix			
	(duplicated),Auxiliary /Engineering order wire,			
	Installation Materials & Tools, Racks with power			
	Instantion materials & 10015, Racks with power			

		1		
	supply unit (duplicated ) and cable head, Digital			
	Distribution Frames & Documentation for each.			
07-01-03114	-Primary Multiplex (PCM-30CH.) Subrack with	Lot	1	
	common units & channel PCB's of different			
	configs. Installed in Racks with power supply units,			
	cable head & Digital Distribution Frames.			
07-01-03115	-Spare parts & spare units.			
07-01-03116	-Installation materials & tools.			
07-01-03117	-Network Management Equipment consisting of	Lot	1	<u> </u>
07-01-03117	Local Network Management System platform	LOI	1	
	(Hard ware),System software packages all complete			
	with craft terminals, Mediation, Interface, and			
	connection cards & modules, Installation Materials &			
	Tools, Documentation & Spare Parts for each item.			
07-01-03118	Test Instruments including : Digital Multimeter,	Lot	1	
07-01-03118	Frequency Counter, Power Meter, PCM Multiplex	LOI	1	
	Tester, RF Sweep Generator, VSWR Test Set, Scalar			
	Network Analyzer, RF Spectrum Analyzer, SDH			
	Analyzer for STM-1,TX / RX MW Link Analyzer,			
	PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual			
	channel, Vedio Test Set, RF Attenuators Fixed &			
	Variable (0 - 60)DB, Cables & Adapters Waveguide /			
07.01.02110	Coax. Adapters & relevant Documentation.	T (	1	
07-01-03119	-Specific Tools including: Specific Maintenance Tools	Lot	1	
	Station Tools, Special Tools for waveguide & General			
	Installation Tools.			
07-01-03120	-Factory Training Abroad.	Trainee	2	
07-01-03121	-Training In Iraq.	Trainee	4	
07-01-03222	-Supervision Services (Supplier Expert).	Expert	1	

## Site - Name SUBAABKAR

Code	Item Description	Unit	Qty.		plement
				ary	Items
07-01-04100	SDH Microwave Radio Equipment, STM-1,	Lot	3		
	13GHZ(2+1) Frequency Diversity Radio Terminal All				
	Complete with Transmitters, Receivers, 128 QAM				
	Modems Modules ,Protection Switch,				
	Engineering order wire channel, 2Mb/s auxiliary				
	traffic, Interface to central Network management,				
	Peripherals ( Lap Top PC , ETC), Installed in				
	Rack with 48V. d/c unit (duplicated).				
07-01-04101	-Installation materials.	Lot	3		
07-01-04102	-Spare parts & spare units.	Lot	3		
07-01-04103	-Documentation.	Set	1		
07-01-04104	Microwave Parabolic Dish (1.8m., 2.4m.) Antenna with	Lot	3		
	(one/ two)Polarization's all complete with Connector				
	Flanges, Tower Attachment,				
	Installation materials & Documentation.				
07-01-04105	-Microwave Elliptical waveguide Feeder Run, 11/13	Lot	3		
	GHZ band all complete with Pressure Window,				
	Fixture clamps, Earthing Kits, Installation materials &				
	Documentation.				
07-01-04106	-Medium Capacity Dehydrator.	Unit	1		
07-01-04107	-10% Spares.	Lot	1		
07-01-04108	-DC Power Plant Including Modular Switched	Lot	1		
	Rectifier system 48V/30A. module(3+1)configuration,				
	48V, 250Ah Lead- Acid Sealed- Batteries (2sets),				
	Cabinets, Installation materials, cables, tools &				
	Documentation.				
07-01-04109	-Spare Parts & Spare Units.	Lot	1		
07-01-04110	-Air Conditioners, Duplicated 18000 / 24000 BTU	Lot	2		
	Unit All Complete With, Piping & installation materials				
	& fixtures, Spare parts & Documentation.				
07-01-04111	AC Power Plant Including Diesel Engine Generator	Lot	1		
	Capacity 50 KVA, Dual Set, all complete with, Daily				
	Fuel Tank, Fan, Piping, Control cubicle & Alarms,				
	Installation Materials, Documentation & Tools				
07-01-04112	-Spare parts & PCB's.	Lot	1		
07-01-04113	-SDH Multiplex Equipment Including STM-16	Lot	1		
	Mutliplexer, STM-4,STM-1Multiplexer Subrack with				
	redundant common units ADM, Terminal				
	configuration, Tributary & Elect. Aggregate Cards				
	(3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s)				
	Access & Connection Modules, Full Matrix				
	(duplicated), Auxiliary / Engineering order wire,				
	Installation Materials & Tools, Racks with power				
	supply unit (duplicated) and cable head, Digital				

	Distribution Frames & Documentation for each.			
07-01-04114	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units, cable head & Digital Distribution Frames.	Lot	1	
07-01-04115	-Spare parts & spare units.			
07-01-04116	-Installation materials & tools.			
07-01-04117	-Network Management Equipment consisting of Local Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials & Tools, Documentation & Spare Parts for each item.	Lot	1	
07-01-04118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-04119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-04120	-Factory Training Abroad.	Trainee	1	
07-01-04121	-Training In Iraq.	Trainee	2	
07-01-04222	-Supervision Services (Supplier Expert).	Expert	1	

## Site - Name JADIRIYA

Code	Item Description	Unit	Qty.	Complement
				ary Items
07-01-05100	SDH Microwave Radio Equipment, STM-1, 13GHZ(2+1) Frequency Diversity Radio Terminal All Complete with Transmitters, Receivers, 128 QAM Modems Modules, Protection Switch,	Lot	3	
	Engineering order wire channel, 2Mb/s auxiliary traffic, Interface to central Network management, Peripherals ( Lap Top PC , ETC), Installed in			
07 01 05101	Rack with 48V. d/c unit (duplicated).	<b>.</b>		
07-01-05101	-Installation materials.	Lot	3	
07-01-05102	-Spare parts & spare units.	Lot	3	
07-01-05103	-Documentation.	Set	1	
07-01-05104	Microwave Parabolic Dish (1.8m., 2.4m.)Antenna with (one/ two)Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	3	
07-01-05105	-Microwave Elliptical waveguide Feeder Run, 11/13 GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	3	
07-01-05106	-Medium Capacity Dehydrator.	Unit	1	
07-01-05107	-10% Spares.	Lot	1	
07-01-05108	-DC Power Plant Including Modular Switched	Lot	1	
	Rectifier system 48V/30A. module(3+1)configuration, 48V, 250Ah Lead- Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools &	200		
	Documentation.			
07-01-05109	-Spare Parts & Spare Units.	Lot	1	
07-01-05110	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	
07-01-05111	AC Power Plant Including Diesel Engine Generator Capacity 50 KVA, Dual Set, all complete with, Daily Fuel Tank, Fan, Piping, Control cubicle & Alarms, Installation Materials, Documentation & Tools	Lot	1	
07-01-05112	-Spare parts & PCB's.	Lot	1	
07-01-05113	-SDH Multiplex Equipment Including STM-16 Multiplexer, STM-4,STM-1Multiplexer Subrack with redundant common units ADM, Terminal configuration, Tributary & Elect. Aggregate Cards (3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s) Access &Connection Modules, Full Matrix	Lot	1	
	(duplicated),Auxiliary /Engineering order wire, Installation Materials & Tools, Racks with power supply unit (duplicated ) and cable head, Digital			

	Distribution Frames & Documentation for each.			
	Distribution Frames & Documentation for each.			
07-01-05114	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units,	Lot	1	
07.01.05115	cable head & Digital Distribution Frames.			
07-01-05115	-Spare parts & spare units.			
07-01-05116	-Installation materials & tools.			
07-01-05117	-Network Management Equipment consisting of Local Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and	Lot	1	
	connection cards & modules, Installation Materials &			
	Tools, Documentation & Spare Parts for each item.			
07-01-05118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-05119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-05120	-Factory Training Abroad.	Trainee	1	
07-01-05121	-Training In Iraq.	Trainee	2	
07-01-05222	-Supervision Services (Supplier Expert).	Expert	1	

## Site - Name ADHMIYA

Code	Item Description	Unit	Qty.	Con	plement
				ary	Items
07-01-06100	SDH Microwave Radio Equipment, STM-1, 13GHZ(2+1) Frequency Diversity Radio Terminal All Complete with Transmitters, Receivers, 128 QAM Modems Modules, Protection Switch,	Lot	3		
	Engineering order wire channel, 2Mb/s auxiliary traffic, Interface to central Network management, Peripherals ( Lap Top PC , ETC), Installed in				
	Rack with 48V. d/c unit (duplicated).				
07-01-06101	-Installation materials.	Lot	3		
07-01-06102	-Spare parts & spare units.	Lot	3		
07-01-06103	-Documentation.	Set	1		
07-01-06104	Microwave Parabolic Dish (1.8m., 2.4m.)Antenna with (one/ two)Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	3		
07-01-06105	-Microwave Elliptical waveguide Feeder Run, 11/13 GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	3		
07-01-06106	-Medium Capacity Dehydrator.	Unit	1		
07-01-06107	-10% Spares.	Lot	1		
07-01-06108	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(3+1)configuration, 48V, 250Ah Lead- Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1		
07-01-06109	-Spare Parts & Spare Units.	Lot	1		
07-01-06110	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2		
07-01-06111	AC Power Plant Including Diesel Engine Generator Capacity 50 KVA, Dual Set, all complete with, Daily Fuel Tank, Fan, Piping, Control cubicle & Alarms, Installation Materials, Documentation & Tools	Lot	1		
07-01-06112	-Spare parts & PCB's.	Lot	1		
07-01-06113	-SDH Multiplex Equipment Including STM-16 Multiplexer, STM-4,STM-1Multiplexer Subrack with redundant common units ADM, Terminal configuration, Tributary & Elect. Aggregate Cards (3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s) Access &Connection Modules, Full Matrix (duplicated),Auxiliary /Engineering order wire,	Lot	1		
	Installation Materials & Tools, Racks with power supply unit (duplicated ) and cable head, Digital				

	Distribution Frames & Documentation for each .			
07-01-06114	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units, cable head & Digital Distribution Frames.	Lot	1	
07-01-06115	-Spare parts & spare units.			
07-01-06116	-Installation materials & tools.			
07-01-06117	-Network Management Equipment consisting of Local Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials & Tools, Documentation & Spare Parts for each item.	Lot	1	
07-01-06118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-06119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-06120	-Factory Training Abroad.	Trainee	1	
07-01-06121	-Training In Iraq.	Trainee	2	
07-01-06222	-Supervision Services (Supplier Expert).	Expert	1	

### Site - Name DAWOODI

Code	Item Description	Unit	Qty.	Com	plement
				ary	Items
07-01-07100	SDH Microwave Radio Equipment, STM-1, 13GHZ(2+1) Frequency Diversity Radio Terminal All Complete with Transmitters, Receivers, 128 QAM	Lot	3		
	Modems Modules ,Protection Switch, Engineering order wire channel, 2Mb/s auxiliary				
	traffic, Interface to central Network management, Peripherals ( Lap Top PC , ETC), Installed in				
	Rack with 48V. d/c unit (duplicated).				
07-01-07101	-Installation materials.	Lot	3		
07-01-07102	-Spare parts & spare units.	Lot	3		
07-01-07103	-Documentation.	Set	1		
07-01-07104	Microwave Parabolic Dish (1.8m., 2.4m.)Antenna with	Lot	3		
0/ 01 0/101	(one/ two)Polarization's all complete with Connector	Lot	5		
	Flanges, Tower Attachment,				
	Installation materials & Documentation.				
07-01-07105	-Microwave Elliptical waveguide Feeder Run, 11/13	Lot	3		
07 01 07100	GHZ band all complete with Pressure Window,	Lot	5		
	Fixture clamps, Earthing Kits, Installation materials &				
	Documentation.				
07-01-07106	-Medium Capacity Dehydrator.	Unit	1		
07-01-07107	-10% Spares.	Lot	1		
07-01-07108	-DC Power Plant Including Modular Switched	Lot	1		
	Rectifier system $48V/30A$ . module(3+1)configuration,				
	48V, 250Ah Lead- Acid Sealed- Batteries (2sets),				
	Cabinets, Installation materials, cables, tools &				
	Documentation.				
07-01-07109	-Spare Parts & Spare Units.	Lot	1		
07-01-07110	-Air Conditioners, Duplicated 18000 / 24000 BTU	Lot	2		
	Unit All Complete With, Piping & installation materials				
	& fixtures, Spare parts & Documentation.				
07-01-07111	AC Power Plant Including Diesel Engine Generator	Lot	1		
	Capacity 50 KVA, Dual Set, all complete with, Daily				
	Fuel Tank, Fan, Piping, Control cubicle & Alarms,				
	Installation Materials, Documentation & Tools				
07-01-07112	-Spare parts & PCB's.	Lot	1		
07-01-07113	-SDH Multiplex Equipment Including STM-16	Lot	1		
	Mutliplexer, STM-4,STM-1Multiplexer Subrack with				
	redundant common units ADM, Terminal				
	configuration, Tributary & Elect. Aggregate Cards				
	(3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s)				
	Access &Connection Modules, Full Matrix				
	(duplicated), Auxiliary /Engineering order wire,				
	Installation Materials & Tools, Racks with power				
	supply unit (duplicated ) and cable head, Digital				

	Distribution Frames & Documentation for each.			
07-01-07114	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units, cable head & Digital Distribution Frames.	Lot	1	
07-01-07115	-Spare parts & spare units.			
07-01-07116	-Installation materials & tools.			
07-01-07117	-Network Management Equipment consisting of Local Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials & Tools, Documentation & Spare Parts for each item.	Lot	1	
07-01-07118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-07119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-07120	-Factory Training Abroad.	Trainee	1	
07-01-07121	-Training In Iraq.	Trainee	2	
07-01-07222	-Supervision Services (Supplier Expert).	Expert	1	

### Site - Name KADHUMIA

Code	Item Description	Unit	Qty.	Complement
				ary Items
07-01-08100	SDH Microwave Radio Equipment, STM-1, 13GHZ(2+1) Frequency Diversity Radio Terminal All Complete with Transmitters, Receivers, 128 QAM Modems Modules, Protection Switch,	Lot	3	
	Engineering order wire channel, 2Mb/s auxiliary traffic, Interface to central Network management, Peripherals ( Lap Top PC , ETC), Installed in Rack with 48V. d/c unit (duplicated).			
07-01-08101	-Installation materials.	Lot	3	
07-01-08102	-Spare parts & spare units.	Lot	3	
07-01-08103	-Documentation.	Set	1	
07-01-08104	Microwave Parabolic Dish (1.8m., 2.4m.)Antenna with (one/ two)Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	3	
07-01-08105	-Microwave Elliptical waveguide Feeder Run, 11/13 GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	3	
07-01-08106	-Medium Capacity Dehydrator.	Unit	1	
07-01-08107	-10% Spares.	Lot	1	
07-01-08108	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(3+1)configuration, 48V, 250Ah Lead- Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-01-08109	-Spare Parts & Spare Units.	Lot	1	
07-01-08110	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	
07-01-08111	AC Power Plant Including Diesel Engine Generator Capacity 50 KVA, Dual Set, all complete with, Daily Fuel Tank, Fan, Piping, Control cubicle & Alarms, Installation Materials, Documentation & Tools	Lot	1	
07-01-08112	-Spare parts & PCB's.	Lot	1	
07-01-08113	-SDH Multiplex Equipment Including STM-16 Multiplexer , STM-4,STM-1Multiplexer Subrack with redundant common units ADM, Terminal configuration , Tributary & Elect. Aggregate Cards (3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s) Access &Connection Modules, Full Matrix (duplicated),Auxiliary /Engineering order wire,	Lot	1	
	Installation Materials & Tools, Racks with power supply unit (duplicated ) and cable head, Digital			

	Distribution Frames & Documentation for each.			
07-01-08114	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units, cable head & Digital Distribution Frames.	Lot	1	
07-01-08115	-Spare parts & spare units.			
07-01-08116	-Installation materials & tools.			
07-01-08117	-Network Management Equipment consisting of Local Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials & Tools, Documentation & Spare Parts for each item.	Lot	1	
07-01-08118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-08119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-08120	-Factory Training Abroad.	Trainee	1	
07-01-08121	-Training In Iraq.	Trainee	2	
07-01-08222	-Supervision Services (Supplier Expert).	Expert	1	

### Site - Name 14 JULY

Code	Item Description	Unit	Qty.	Com	plement
				ary	Items
07-01-09100	SDH Microwave Radio Equipment, STM-1,	Lot	3		
	13GHZ(2+1) Frequency Diversity Radio Terminal All				
	Complete with Transmitters, Receivers, 128 QAM				
	Modems Modules ,Protection Switch,				
	Engineering order wire channel, 2Mb/s auxiliary				
	traffic, Interface to central Network management,				
	Peripherals ( Lap Top PC , ETC), Installed in				
	Rack with 48V. d/c unit (duplicated).				
07-01-09101	-Installation materials.	Lot	3		
07-01-09102	-Spare parts & spare units.	Lot	3		
07-01-09103	-Documentation.	Set	1		
07-01-09104	Microwave Parabolic Dish (1.8m., 2.4m.) Antenna with	Lot	3		
	(one/ two)Polarization's all complete with Connector				
	Flanges, Tower Attachment,				
	Installation materials & Documentation.				
07-01-09105	-Microwave Elliptical waveguide Feeder Run, 11/13	Lot	3		
	GHZ band all complete with Pressure Window,				
	Fixture clamps, Earthing Kits, Installation materials &				
	Documentation.				
07-01-09106	-Medium Capacity Dehydrator.	Unit	1		
07-01-09107	-10% Spares.	Lot	1		
07-01-09108	-DC Power Plant Including Modular Switched	Lot	1		
	Rectifier system 48V/30A. module(3+1)configuration,				
	48V, 250Ah Lead- Acid Sealed- Batteries (2sets),				
	Cabinets, Installation materials, cables, tools &				
	Documentation.				
07-01-09109	-Spare Parts & Spare Units.	Lot	1		
07-01-09110	-Air Conditioners, Duplicated 18000 / 24000 BTU	Lot	2		
	Unit All Complete With, Piping & installation materials				
	& fixtures, Spare parts & Documentation.				
07-01-09111	AC Power Plant Including Diesel Engine Generator	Lot	1		
	Capacity 50 KVA, Dual Set, all complete with, Daily				
	Fuel Tank, Fan, Piping, Control cubicle & Alarms,				
	Installation Materials, Documentation & Tools				
07-01-09112	-Spare parts & PCB's.	Lot	1		
07-01-09113	-SDH Multiplex Equipment Including STM-16	Lot	1		
	Mutliplexer, STM-4,STM-1Multiplexer Subrack with				
	redundant common units ADM, Terminal				
	configuration, Tributary & Elect. Aggregate Cards				
	(3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s)				
	Access & Connection Modules, Full Matrix				
	(duplicated), Auxiliary / Engineering order wire,				
	Installation Materials & Tools, Racks with power				
	supply unit (duplicated) and cable head, Digital				

	Distribution Frames & Documentation for each.			
07-01-09114	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units, cable head & Digital Distribution Frames.	Lot	1	
07-01-09115	-Spare parts & spare units. -Installation materials & tools.			
07-01-09116				
07-01-09117	-Network Management Equipment consisting of Local Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials & Tools, Documentation & Spare Parts for each item.	Lot	1	
07-01-09118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-09119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-09120	-Factory Training Abroad.	Trainee	1	
07-01-09121	-Training In Iraq.	Trainee	2	
07-01-09222	-Supervision Services (Supplier Expert).	Expert	1	

## Site - Name : NEW BAGHDAD

Code	Item Description	Unit	Qty.	Con	plement
				ary	Items
07-01-10100	SDH Microwave Radio Equipment, STM-1,	Lot	3		
	13GHZ(2+1) Frequency Diversity Radio Terminal All				
	Complete with Transmitters, Receivers, 128 QAM				
	Modems Modules ,Protection Switch,				
	Engineering order wire channel, 2Mb/s auxiliary				
	traffic, Interface to central Network management,				
	Peripherals ( Lap Top PC , ETC), Installed in				
	Rack with 48V. d/c unit (duplicated).				
07-01-10101	-Installation materials.	Lot	3		
07-01-10102	-Spare parts & spare units.	Lot	3		
07-01-10103	-Documentation.	Set	1		
07-01-10104	Microwave Parabolic Dish (1.8m., 2.4m.) Antenna with	Lot	3		
	(one/ two)Polarization's all complete with Connector				
	Flanges, Tower Attachment,				
	Installation materials & Documentation.				
07-01-10105	-Microwave Elliptical waveguide Feeder Run, 11/13	Lot	3		
	GHZ band all complete with Pressure Window,				
	Fixture clamps, Earthing Kits, Installation materials &				
	Documentation.				
07-01-10106	-Medium Capacity Dehydrator.	Unit	1		
07-01-10107	-10% Spares.	Lot	1		
07-01-10108	-DC Power Plant Including Modular Switched	Lot	1		
	Rectifier system 48V/30A. module(3+1)configuration,				
	48V, 250Ah Lead- Acid Sealed- Batteries (2sets),				
	Cabinets, Installation materials, cables, tools &				
	Documentation.				
07-01-10109	-Spare Parts & Spare Units.	Lot	1		
07-01-10110	-Air Conditioners, Duplicated 18000 / 24000 BTU	Lot	2		
	Unit All Complete With, Piping & installation materials				
	& fixtures, Spare parts & Documentation.				
07-01-10111	AC Power Plant Including Diesel Engine Generator	Lot	1		
	Capacity 50 KVA, Dual Set, all complete with, Daily				
	Fuel Tank, Fan, Piping, Control cubicle & Alarms,				
	Installation Materials, Documentation & Tools				
07-01-10112	-Spare parts & PCB's.	Lot	1		
07-01-10113	-SDH Multiplex Equipment Including STM-16	Lot	1		
	Mutliplexer, STM-4,STM-1Multiplexer Subrack with				
	redundant common units ADM, Terminal				
	configuration, Tributary & Elect. Aggregate Cards				
	(3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s)				
	Access & Connection Modules, Full Matrix				
	(duplicated), Auxiliary /Engineering order wire,				
	Installation Materials & Tools, Racks with power				
	supply unit (duplicated ) and cable head, Digital				

	Distribution Frames & Documentation for each.			
07-01-10114	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units, cable head & Digital Distribution Frames.	Lot	1	
07-01-10115	-Spare parts & spare units.			
07-01-10116	-Installation materials & tools.			
07-01-10117	-Network Management Equipment consisting of Local Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials & Tools, Documentation & Spare Parts for each item.	Lot	1	
07-01-10118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-10119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-10120	-Factory Training Abroad.	Trainee	1	
07-01-10121	-Training In Iraq.	Trainee	2	
07-01-10222	-Supervision Services (Supplier Expert).	Expert	1	

### Site - Name : BAB ALMUADAM

Code	Item Description	Unit	Qty.	Com	plement
				ary	Items
07-01-11100	SDH Microwave Radio Equipment, STM-1,	Lot	2		
	13GHZ(2+1) Frequency Diversity Radio Terminal All				
	Complete with Transmitters, Receivers, 128 QAM				
	Modems Modules ,Protection Switch,				
	Engineering order wire channel, 2Mb/s auxiliary				
	traffic, Interface to central Network management,				
	Peripherals ( Lap Top PC , ETC), Installed in				
	Rack with 48V. d/c unit (duplicated).				
07-01-11101	-Installation materials.	Lot	2		
07-01-11102	-Spare parts & spare units.	Lot	2		
07-01-11103	-Documentation.	Set	1		
07-01-11104	Microwave Parabolic Dish (1.8m., 2.4m.) Antenna with	Lot	2		
	(one/ two)Polarization's all complete with Connector				
	Flanges, Tower Attachment,				
	Installation materials & Documentation.				
07-01-11105	-Microwave Elliptical waveguide Feeder Run, 11/13	Lot	2		
	GHZ band all complete with Pressure Window,				
	Fixture clamps, Earthing Kits, Installation materials &				
	Documentation.				
07-01-11106	-Medium Capacity Dehydrator.	Unit	1		
07-01-11107	-10% Spares.	Lot	1		
07-01-11108	-DC Power Plant Including Modular Switched	Lot	1		
	Rectifier system 48V/30A. module(3+1)configuration,				
	48V, 250Ah Lead- Acid Sealed- Batteries (2sets),				
	Cabinets, Installation materials, cables, tools &				
	Documentation.				
07-01-11109	-Spare Parts & Spare Units.	Lot	1		
07-01-11110	-Air Conditioners, Duplicated 18000 / 24000 BTU	Lot	2		
	Unit All Complete With, Piping & installation materials				
	& fixtures, Spare parts & Documentation.				
07-01-11111	AC Power Plant Including Diesel Engine Generator	Lot	1		
	Capacity 50 KVA, Dual Set, all complete with, Daily				
	Fuel Tank, Fan, Piping, Control cubicle & Alarms,				
	Installation Materials, Documentation & Tools				
07-01-11112	-Spare parts & PCB's.	Lot	1		
07-01-11113	-SDH Multiplex Equipment Including STM-16	Lot	1		
	Mutliplexer, STM-4,STM-1Multiplexer Subrack with				
	redundant common units ADM, Terminal				
	configuration, Tributary & Elect. Aggregate Cards				
	(3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s)				
	Access & Connection Modules, Full Matrix				
	(duplicated), Auxiliary / Engineering order wire,				
	Installation Materials & Tools, Racks with power				
	supply unit (duplicated ) and cable head, Digital				

	Distribution Frames & Documentation for each.			
07-01-11114	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units, cable head & Digital Distribution Frames.	Lot	1	
07-01-11115	-Spare parts & spare units.			
07-01-11116	-Installation materials & tools.			
07-01-11117	-Network Management Equipment consisting of Local Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials & Tools, Documentation & Spare Parts for each item.	Lot	1	
07-01-11118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-11119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-11120	-Factory Training Abroad.	Trainee	1	
07-01-11121	-Training In Iraq.	Trainee	2	
07-01-11222	-Supervision Services (Supplier Expert).	Expert	1	

## Site - Name : SALHYIA

Code	Item Description	Unit	Qty.	Com	plement
				ary	Items
07-01-12100	SDH Microwave Radio Equipment, STM-1, 13GHZ(2+1) Frequency Diversity Radio Terminal All Complete with Transmitters, Receivers, 128 QAM Modems Modules, Protection Switch,	Lot	2		
	Engineering order wire channel, 2Mb/s auxiliary traffic, Interface to central Network management,				
	Peripherals ( Lap Top PC , ETC), Installed in Rack with 48V. d/c unit (duplicated).				
07-01-12101	-Installation materials.	Lot	2		
07-01-12101	-Spare parts & spare units.	Lot	2		
07-01-12102	-Documentation.	Set	1		
07-01-12104	Microwave Parabolic Dish (1.8m., 2.4m.)Antenna with	Lot	2		
07 01 12104	(one/ two)Polarization's all complete with Connector	Lot	2		
	Flanges, Tower Attachment,				
	Installation materials & Documentation.				
07-01-12105	-Microwave Elliptical waveguide Feeder Run, 11/13	Lot	2		
07 01 12100	GHZ band all complete with Pressure Window,	Lot	_		
	Fixture clamps, Earthing Kits, Installation materials &				
	Documentation.				
07-01-12106	-Medium Capacity Dehydrator.	Unit	1		
07-01-12107	-10% Spares.	Lot	1		
07-01-12108	-DC Power Plant Including Modular Switched	Lot	1		
	Rectifier system 48V/30A. module(3+1)configuration,				
	48V, 250Ah Lead- Acid Sealed- Batteries (2sets),				
	Cabinets, Installation materials, cables, tools &				
	Documentation.				
07-01-12109	-Spare Parts & Spare Units.	Lot	1		
07-01-12110	-Air Conditioners, Duplicated 18000 / 24000 BTU	Lot	2		
	Unit All Complete With, Piping & installation materials				
	& fixtures, Spare parts & Documentation.				
07-01-12111	AC Power Plant Including Diesel Engine Generator	Lot	1		
	Capacity 50 KVA, Dual Set, all complete with, Daily				
	Fuel Tank, Fan, Piping, Control cubicle & Alarms,				
	Installation Materials, Documentation & Tools				
07-01-12112	-Spare parts & PCB's.	Lot	1		
07-01-12113	-SDH Multiplex Equipment Including STM-16	Lot	1		
	Mutliplexer, STM-4,STM-1Multiplexer Subrack with				
	redundant common units ADM, Terminal				
	configuration, Tributary & Elect. Aggregate Cards				
	(3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s)				
	Access & Connection Modules, Full Matrix				
	(duplicated), Auxiliary /Engineering order wire,				
	Installation Materials & Tools, Racks with power				
	supply unit (duplicated ) and cable head, Digital				

	Distribution Frames & Documentation for each.			
07-01-12114	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units, cable head & Digital Distribution Frames.	Lot	1	
07-01-12115	-Spare parts & spare units.			
07-01-12116	-Installation materials & tools.			
07-01-12117	-Network Management Equipment consisting of Local Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials & Tools, Documentation & Spare Parts for each item.	Lot	1	
07-01-12118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-12119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-12120	-Factory Training Abroad.	Trainee	1	
07-01-12121	-Training In Iraq.	Trainee	2	
07-01-12122	-Supervision Services (Supplier Expert).	Expert	1	

## Site - Name : AL DUBAT

Code	Item Description	Unit	Qty.	Com	plement
				ary	Items
07-01-13100	SDH Microwave Radio Equipment, STM-1, 13GHZ(2+1) Frequency Diversity Radio Terminal All Complete with Transmitters, Receivers, 128 QAM	Lot	2		
	Modems Modules ,Protection Switch, Engineering order wire channel, 2Mb/s auxiliary traffic, Interface to central Network management,				
	Peripherals ( Lap Top PC , ETC), Installed in Rack with 48V. d/c unit (duplicated).				
07-01-13101	-Installation materials.	Lot	2		
07-01-13101	-Spare parts & spare units.	Lot	2		
07-01-13102	-Documentation.	Set	1		
07-01-13104	Microwave Parabolic Dish (1.8m., 2.4m.) Antenna with	Lot	2		
07 01 15104	(one/ two)Polarization's all complete with Connector	Lot	2		
	Flanges, Tower Attachment,				
	Installation materials & Documentation.				
07-01-13105	-Microwave Elliptical waveguide Feeder Run, 11/13	Lot	2		
	GHZ band all complete with Pressure Window,				
	Fixture clamps, Earthing Kits, Installation materials &				
	Documentation.				
07-01-13106	-Medium Capacity Dehydrator.	Unit	1		
07-01-13107	-10% Spares.	Lot	1		
07-01-13108	-DC Power Plant Including Modular Switched	Lot	1		
	Rectifier system 48V/30A. module(3+1)configuration,				
	48V, 250Ah Lead- Acid Sealed- Batteries (2sets),				
	Cabinets, Installation materials, cables, tools &				
	Documentation.				
07-01-13109	-Spare Parts & Spare Units.	Lot	1		
07-01-13110	-Air Conditioners, Duplicated 18000 / 24000 BTU	Lot	2		
	Unit All Complete With, Piping & installation materials				
	& fixtures, Spare parts & Documentation.				
07-01-13111	AC Power Plant Including Diesel Engine Generator	Lot	1		
	Capacity 50 KVA, Dual Set, all complete with, Daily				
	Fuel Tank, Fan, Piping, Control cubicle & Alarms,				
	Installation Materials, Documentation & Tools	-			
07-01-13112	-Spare parts & PCB's.	Lot	1		
07-01-13113	-SDH Multiplex Equipment Including STM-16	Lot	1		
	Mutliplexer, STM-4,STM-1Multiplexer Subrack with				
	redundant common units ADM, Terminal				
	configuration, Tributary & Elect. Aggregate Cards				
	(3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s)				
	Access &Connection Modules, Full Matrix (duplicated),Auxiliary /Engineering order wire,				
	Installation Materials & Tools, Racks with power				
	supply unit (duplicated ) and cable head, Digital				
	suppry and (aupheated ) and cable nead, Digital	l			

	Distribution Frames & Documentation for each .			
07-01-13114	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units, cable head & Digital Distribution Frames.	Lot	1	
07-01-13115 07-01-13116	-Spare parts & spare units. -Installation materials & tools.			
		-		
07-01-13117	-Network Management Equipment consisting of Local Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials & Tools, Documentation & Spare Parts for each item.	Lot	1	
07-01-13118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-13119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-13120	-Factory Training Abroad.	Trainee	1	
07-01-13121	-Training In Iraq.	Trainee	2	
07-01-13122	-Supervision Services (Supplier Expert).	Expert	1	

## Site - Name : BAYAA

Code	Item Description	Unit	Qty.	Complement ary Items
07-01-14100	SDH Microwave Radio Equipment, STM-1, 13GHZ(2+1) Frequency Diversity Radio Terminal All Complete with Transmitters, Receivers, 128 QAM Modems Modules ,Protection Switch, Engineering order wire channel, 2Mb/s auxiliary traffic, Interface to central Network management, Peripherals ( Lap Top PC , ETC), Installed in Rack with 48V. d/c unit (duplicated).	Lot	2	
07-01-14101	-Installation materials.	Lot	2	
07-01-14102	-Spare parts & spare units.	Lot	2	
07-01-14103	-Documentation.	Set	1	
07-01-14104	Microwave Parabolic Dish (1.8m., 2.4m.)Antenna with (one/ two)Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	2	
07-01-14105	-Microwave Elliptical waveguide Feeder Run, 11/13 GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	2	
07-01-14106	-Medium Capacity Dehydrator.	Unit	1	
07-01-14107	-10% Spares.	Lot	1	
07-01-14108	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(3+1)configuration, 48V, 250Ah Lead- Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-01-14109	-Spare Parts & Spare Units.	Lot	1	
07-01-14110	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	
07-01-14111	AC Power Plant Including Diesel Engine Generator Capacity 50 KVA, Dual Set, all complete with, Daily Fuel Tank, Fan, Piping, Control cubicle & Alarms, Installation Materials, Documentation & Tools	Lot	1	
07-01-14112	-Spare parts & PCB's.	Lot	1	
07-01-14113	-SDH Multiplex Equipment Including STM-16 Mutliplexer, STM-4,STM-1Multiplexer Subrack with redundant common units ADM, Terminal configuration, Tributary & Elect. Aggregate Cards (3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s) Access &Connection Modules, Full Matrix (duplicated),Auxiliary /Engineering order wire, Installation Materials & Tools, Racks with power supply unit (duplicated) and cable head, Digital Distribution Frames & Documentation for each.	Lot	1	

07-01-14114 07-01-14115 07-01-14116	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units, cable head & Digital Distribution Frames. -Spare parts & spare units. -Installation materials & tools.	Lot	1	
07-01-14117	-Network Management Equipment consisting of Local Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials & Tools, Documentation & Spare Parts for each item.	Lot	1	
07-01-14118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-14119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-14120 07-01-14121 07-01-14122	<ul><li>-Factory Training Abroad.</li><li>-Training In Iraq.</li><li>-Supervision Services (Supplier Expert).</li></ul>	Trainee Trainee Expert	1 2 1	

### Site - Name : DORA

Code	Item Description	Unit	Qty.	Com	plement
				ary	Items
07-01-15100	SDH Microwave Radio Equipment, STM-1, 13GHZ(2+1) Frequency Diversity Radio Terminal All Complete with Transmitters, Receivers, 128 QAM Modems Modules, Protection Switch,	Lot	2		
	Engineering order wire channel, 2Mb/s auxiliary traffic, Interface to central Network management, Peripherals ( Lap Top PC , ETC), Installed in Rack with 48V. d/c unit (duplicated).				
07-01-15101	-Installation materials.	Lot	2		
07-01-15102	-Spare parts & spare units.	Lot	2		
07-01-15102	-Documentation.	Set	1		
07-01-15104	Microwave Parabolic Dish (1.8m., 2.4m.)Antenna with (one/ two)Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	2		
07-01-15105	-Microwave Elliptical waveguide Feeder Run, 11/13 GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	2		
07-01-15106	-Medium Capacity Dehydrator.	Unit	1		
07-01-15107	-10% Spares.	Lot	1		
07-01-15108	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(3+1)configuration, 48V, 250Ah Lead- Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1		
07-01-15109	-Spare Parts & Spare Units.	Lot	1		
07-01-15110	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2		
07-01-15111	AC Power Plant Including Diesel Engine Generator Capacity 50 KVA, Dual Set, all complete with, Daily Fuel Tank, Fan, Piping, Control cubicle & Alarms, Installation Materials, Documentation & Tools	Lot	1		
07-01-15112	-Spare parts & PCB's.	Lot	1		
07-01-15113	-SDH Multiplex Equipment Including STM-16 Mutliplexer, STM-4,STM-1Multiplexer Subrack with redundant common units ADM, Terminal configuration, Tributary & Elect. Aggregate Cards (3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s) Access &Connection Modules, Full Matrix (duplicated),Auxiliary /Engineering order wire,	Lot	1		
	Installation Materials & Tools, Racks with power supply unit (duplicated ) and cable head, Digital				

	Distribution Frames & Documentation for each.			
07-01-15114	-Primary Multiplex (PCM-30CH.) Subrack with	Lot	1	
	common units & channel PCB's of different			
	configs. Installed in Racks with power supply units,			
	cable head & Digital Distribution Frames.			
07-01-15115	-Spare parts & spare units.			
07-01-15116	-Installation materials & tools.			
07-01-15117	-Network Management Equipment consisting of	Lot	1	
0, 01 1011,	Local Network Management System platform	200	-	
	(Hard ware), System software packages all complete			
	with craft terminals, Mediation, Interface, and			
	connection cards & modules, Installation Materials &			
	Tools, Documentation & Spare Parts for each item.			
07-01-15118	Test Instruments including : Digital Multimeter,	Lot	1	
07-01-13118	Frequency Counter, Power Meter, PCM Multiplex	LOI	1	
	Tester, RF Sweep Generator, VSWR Test Set, Scalar			
	Network Analyzer, RF Spectrum Analyzer, SDH			
	Analyzer for STM-1,TX / RX MW Link Analyzer,			
	PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual			
	channel, Vedio Test Set, RF Attenuators Fixed &			
	Variable (0 - 60)DB, Cables & Adapters Waveguide /			
	Coax. Adapters & relevant Documentation.			
07-01-15119	-Specific Tools including: Specific Maintenance Tools	Lot	1	
	Station Tools, Special Tools for waveguide & General			
	Installation Tools.			
07-01-15120	-Factory Training Abroad.	Trainee	1	
07-01-15121	-Training In Iraq.	Trainee	2	
07-01-15122	-Supervision Services (Supplier Expert).	Expert	1	

### Site - Name : FIDAA

Code	Item Description	Unit	Qty.		plement
				ary	Items
07-01-16100	SDH Microwave Radio Equipment, STM-1, 13GHZ(2+1) Frequency Diversity Radio Terminal All	Lot	2		
	Complete with Transmitters, Receivers, 128 QAM				
	Modems Modules ,Protection Switch,				
	Engineering order wire channel, 2Mb/s auxiliary				
	traffic, Interface to central Network management,				
	Peripherals ( Lap Top PC , ETC), Installed in				
	Rack with 48V. d/c unit (duplicated).				
07-01-16101	-Installation materials.	Lot	2		
07-01-16102	-Spare parts & spare units.	Lot	2		
07-01-16103	-Documentation.	Set	1		
07-01-16104	Microwave Parabolic Dish (1.8m., 2.4m.) Antenna with	Lot	2		
	(one/ two)Polarization's all complete with Connector				
	Flanges, Tower Attachment,				
	Installation materials & Documentation.				
07-01-16105	-Microwave Elliptical waveguide Feeder Run, 11/13	Lot	2		
	GHZ band all complete with Pressure Window,				
	Fixture clamps, Earthing Kits, Installation materials &				
	Documentation.				
07-01-16106	-Medium Capacity Dehydrator.	Unit	1		
07-01-16107	-10% Spares.	Lot	1	-	
07-01-16108	-DC Power Plant Including Modular Switched	Lot	1		
	Rectifier system 48V/30A. module(3+1)configuration,				
	48V, 250Ah Lead- Acid Sealed- Batteries (2sets),				
	Cabinets, Installation materials, cables, tools &				
07 01 16100	Documentation.	Lat	1		
07-01-16109	-Spare Parts & Spare Units.	Lot	1		
07-01-16110	-Air Conditioners, Duplicated 18000 / 24000 BTU	Lot	2		
	Unit All Complete With, Piping & installation materials				
07.01.1(111	& fixtures, Spare parts & Documentation.	<b>T</b> (	1		
07-01-16111	AC Power Plant Including Diesel Engine Generator	Lot	1		
	Capacity 50 KVA, Dual Set, all complete with, Daily				
	Fuel Tank, Fan, Piping, Control cubicle & Alarms,				
07-01-16112	Installation Materials, Documentation & Tools	Lot	1		
07-01-16112	-Spare parts & PCB's. -SDH Multiplex Equipment Including STM-16	Lot	1		
07-01-10115	· · · ·	Lot	1		
	Mutliplexer, STM-4,STM-1Multiplexer Subrack with redundant common units ADM, Terminal				
	configuration, Tributary & Elect. Aggregate Cards				
	(3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s)				
	Access &Connection Modules, Full Matrix				
	(duplicated), Auxiliary /Engineering order wire,				
	Installation Materials & Tools, Racks with power				
	supply unit (duplicated ) and cable head, Digital				

	Distribution Frames & Documentation for each.			
07-01-16114	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units, cable head & Digital Distribution Frames.	Lot	1	
07-01-16115	-Spare parts & spare units.			
07-01-16116	-Installation materials & tools.			
07-01-16117	-Network Management Equipment consisting of Local Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials & Tools, Documentation & Spare Parts for each item.	Lot	1	
07-01-16118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-16119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-16120	-Factory Training Abroad.	Trainee	1	
07-01-16121	-Training In Iraq.	Trainee	2	
07-01-16122	-Supervision Services (Supplier Expert).	Expert	1	

## Site - Name : ABU GRAIB

Code	Item Description	Unit	Qty.	Com	plement
				ary	Items
07-01-17100	SDH Microwave Radio Equipment, STM-1, 13GHZ(2+1) Frequency Diversity Radio Terminal All	Lot	2		
	Complete with Transmitters, Receivers, 128 QAM				
	Modems Modules ,Protection Switch,				
	Engineering order wire channel, 2Mb/s auxiliary				
	traffic, Interface to central Network management,				
	Peripherals ( Lap Top PC , ETC), Installed in				
	Rack with 48V. d/c unit (duplicated).				
07-01-17101	-Installation materials.	Lot	2		
07-01-17102	-Spare parts & spare units.	Lot	2		
07-01-17103	-Documentation.	Set	1		
07-01-17104	Microwave Parabolic Dish (1.8m., 2.4m.)Antenna with	Lot	2		
	(one/ two)Polarization's all complete with Connector				
	Flanges, Tower Attachment,				
	Installation materials & Documentation.				
07-01-17105	-Microwave Elliptical waveguide Feeder Run, 11/13	Lot	2		
	GHZ band all complete with Pressure Window,				
	Fixture clamps, Earthing Kits, Installation materials &				
	Documentation.				
07-01-17106	-Medium Capacity Dehydrator.	Unit	1		
07-01-17107	-10% Spares.	Lot	1		
07-01-17108	-DC Power Plant Including Modular Switched	Lot	1		
	Rectifier system 48V/30A. module(3+1)configuration,				
	48V, 250Ah Lead- Acid Sealed- Batteries (2sets),				
	Cabinets, Installation materials, cables, tools &				
07 01 17100	Documentation.	T /	1		
07-01-17109	-Spare Parts & Spare Units.	Lot	1		
07-01-17110	-Air Conditioners, Duplicated 18000 / 24000 BTU	Lot	2		
	Unit All Complete With, Piping & installation materials				
	& fixtures, Spare parts & Documentation.	-			
07-01-17111	AC Power Plant Including Diesel Engine Generator	Lot	1		
	Capacity 50 KVA, Dual Set, all complete with, Daily				
	Fuel Tank, Fan, Piping, Control cubicle & Alarms,				
07 01 17110	Installation Materials, Documentation & Tools	T /	1		
07-01-17112	-Spare parts & PCB's.	Lot	1		
07-01-17113	-SDH Multiplex Equipment Including STM-16	Lot	1		
	Mutliplexer, STM-4,STM-1Multiplexer Subrack with				
	redundant common units ADM, Terminal				
	configuration, Tributary & Elect. Aggregate Cards				
	(3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s)				
	Access &Connection Modules, Full Matrix				
	(duplicated), Auxiliary /Engineering order wire,				
	Installation Materials & Tools, Racks with power				
	supply unit (duplicated ) and cable head, Digital				

	Distribution Frames & Documentation for each .			
07-01-17114	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units, cable head & Digital Distribution Frames.	Lot	1	
07-01-17115	-Spare parts & spare units.			
07-01-17116	-Installation materials & tools.			
07-01-17117	-Network Management Equipment consisting of Local Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials & Tools, Documentation & Spare Parts for each item.	Lot	1	
07-01-17118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-17119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-17120	-Factory Training Abroad.	Trainee	1	
07-01-17121	-Training In Iraq.	Trainee	2	
07-01-17122	-Supervision Services (Supplier Expert).	Expert	1	

### Site - Name : GHAZ

Code	Item Description	Unit	Qty.	Con	plement
				ary	Items
07-01-18100	SDH Microwave Radio Equipment, STM-1,	Lot	1		
	13GHZ(2+1) Frequency Diversity Radio Terminal All				
	Complete with Transmitters, Receivers, 128 QAM				
	Modems Modules ,Protection Switch,				
	Engineering order wire channel, 2Mb/s auxiliary				
	traffic, Interface to central Network management,				
	Peripherals ( Lap Top PC , ETC), Installed in				
	Rack with 48V. d/c unit (duplicated).				
07-01-18101	-Installation materials.	Lot	1		
07-01-18102	-Spare parts & spare units.	Lot	1		
07-01-18103	-Documentation.	Set	1		
07-01-18104	Microwave Parabolic Dish (1.8m., 2.4m.)Antenna with	Lot	1		
	(one/ two)Polarization's all complete with Connector				
	Flanges, Tower Attachment,				
	Installation materials & Documentation.				
07-01-18105	-Microwave Elliptical waveguide Feeder Run, 11/13	Lot	1		
	GHZ band all complete with Pressure Window,				
	Fixture clamps, Earthing Kits, Installation materials &				
	Documentation.				
07-01-18106	-Medium Capacity Dehydrator.	Unit	1		
07-01-18107	-10% Spares.	Lot	1		
07-01-18108	-DC Power Plant Including Modular Switched	Lot	1		
	Rectifier system 48V/30A. module(3+1)configuration,				
	48V, 250Ah Lead- Acid Sealed- Batteries (2sets),				
	Cabinets, Installation materials, cables, tools &				
	Documentation.	-			
07-01-18109	-Spare Parts & Spare Units.	Lot	1		
07-01-18110	-Air Conditioners, Duplicated 18000 / 24000 BTU	Lot	2		
	Unit All Complete With, Piping & installation materials				
	& fixtures, Spare parts & Documentation.				
07-01-18111	AC Power Plant Including Diesel Engine Generator	Lot	1		
	Capacity 50 KVA, Dual Set, all complete with, Daily				
	Fuel Tank, Fan, Piping, Control cubicle & Alarms,				
	Installation Materials, Documentation & Tools	-			
07-01-18112	-Spare parts & PCB's.	Lot	1		
07-01-18113	-SDH Multiplex Equipment Including STM-16	Lot	1		
	Mutliplexer, STM-4,STM-1Multiplexer Subrack with				
	redundant common units ADM, Terminal				
	configuration, Tributary & Elect. Aggregate Cards				
	(3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s)				
	Access &Connection Modules, Full Matrix				
	(duplicated),Auxiliary /Engineering order wire,				
	Installation Materials & Tools, Racks with power				
	supply unit (duplicated ) and cable head, Digital				

	Distribution Frames & Documentation for each.			
07-01-18114	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units, cable head & Digital Distribution Frames.	Lot	1	
07-01-18115	-Spare parts & spare units. -Installation materials & tools.			
07-01-18116		-		
07-01-18117	-Network Management Equipment consisting of Local Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials & Tools, Documentation & Spare Parts for each item.	Lot	1	
07-01-18118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-18119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-18120	-Factory Training Abroad.	Trainee	1	
07-01-18121	-Training In Iraq.	Trainee	2	
07-01-18122	-Supervision Services (Supplier Expert).	Expert	1	

### Site - Name : KAMALIYA

Code	Item Description	Unit	Qty.	Complement
				ary Items
07-01-19100	SDH Microwave Radio Equipment, STM-1, 13GHZ(1+1) Frequency Diversity Radio Terminal All Complete with Transmitters, Receivers, 128 QAM Modems Modules, Protection Switch,	Lot	1	
	Engineering order wire channel, 2Mb/s auxiliary traffic, Interface to central Network management, Peripherals ( Lap Top PC , ETC), Installed in Pask with 48V d/a wit (dwplicated)			
07-01-19101	Rack with 48V. d/c unit (duplicated). -Installation materials.	Lot	1	
07-01-19101				
	-Spare parts & spare units. -Documentation.	Lot	1	
07-01-19103		Set	1	
07-01-19104	Microwave Parabolic Dish (1.8m., 2.4m.)Antenna with (one/ two)Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	1	
07-01-19105	-Microwave Elliptical waveguide Feeder Run, 11/13 GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	1	
07-01-19106	-Medium Capacity Dehydrator.	Unit	1	
07-01-19107	-10% Spares.	Lot	1	
07-01-19108	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(3+1)configuration, 48V, 250Ah Lead- Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-01-19109	-Spare Parts & Spare Units.	Lot	1	
07-01-19110	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	
07-01-19111	AC Power Plant Including Diesel Engine Generator Capacity 50 KVA, Dual Set, all complete with, Daily Fuel Tank, Fan, Piping, Control cubicle & Alarms, Installation Materials, Documentation & Tools	Lot	1	
07-01-19112	-Spare parts & PCB's.	Lot	1	
07-01-19113	-SDH Multiplex Equipment Including STM-16 Multiplexer , STM-4,STM-1Multiplexer Subrack with redundant common units ADM, Terminal configuration , Tributary & Elect. Aggregate Cards (3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s) Access &Connection Modules, Full Matrix (duplicated),Auxiliary /Engineering order wire,	Lot	1	
	Installation Materials & Tools, Racks with power supply unit (duplicated ) and cable head, Digital			

	Distribution Frames & Documentation for each.			
07-01-19114	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units, cable head & Digital Distribution Frames.	Lot	1	
07-01-19115	-Spare parts & spare units.			
07-01-19116	-Installation materials & tools.			
07-01-19117	-Network Management Equipment consisting of Local Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials & Tools, Documentation & Spare Parts for each item.	Lot	1	
07-01-19118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-19119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-19120	-Factory Training Abroad.	Trainee	1	
07-01-19121	-Training In Iraq.	Trainee	2	
07-01-19122	-Supervision Services (Supplier Expert).	Expert	1	

## Site - Name : BAGHDAD TRAINING CENTER

Code	Item Description	Unit	Qty.	Con	plement
				ary	Items
07-01-20100	SDH Microwave Radio Equipment, STM-1, 13GHZ(2+1) Frequency Diversity Radio Terminal All Complete with Transmitters, Receivers, 128 QAM Modems Modules, Protection Switch,	Lot	2		
	Engineering order wire channel, 2Mb/s auxiliary traffic, Interface to central Network management, Peripherals ( Lap Top PC , ETC), Installed in Rack with 48V. d/c unit (duplicated).				
07-01-20101	-Installation materials.	Lot	2		
07-01-20102	-Spare parts & spare units.	Lot	2		
07-01-20102	-Documentation.	Set	1		
07-01-20104	Microwave Parabolic Dish (1.8m., 2.4m.)Antenna with (one/ two)Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	0		
07-01-20105	-Microwave Elliptical waveguide Feeder Run, 11/13 GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	1		
07-01-20106	-Medium Capacity Dehydrator.	Unit	1		
07-01-20107	-10% Spares.	Lot	1		
07-01-20108	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(3+1)configuration, 48V, 250Ah Lead- Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1		
07-01-20109	-Spare Parts & Spare Units.	Lot	1		
07-01-20110	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2		
07-01-20111	AC Power Plant Including Diesel Engine Generator Capacity 50 KVA, Dual Set, all complete with, Daily Fuel Tank, Fan, Piping, Control cubicle & Alarms, Installation Materials, Documentation & Tools	Lot	1		
07-01-20112	-Spare parts & PCB's.	Lot	1		
07-01-20113	-SDH Multiplex Equipment Including STM-16 Multiplexer, STM-4,STM-1Multiplexer Subrack with redundant common units ADM, Terminal configuration, Tributary & Elect. Aggregate Cards (3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s) Access &Connection Modules, Full Matrix (duplicated),Auxiliary /Engineering order wire, Installation Materials & Tools Backs with power	Lot	1		
	Installation Materials & Tools, Racks with power supply unit (duplicated ) and cable head, Digital				

	Distribution Frames & Documentation for each.			
07-01-20114	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units, cable head & Digital Distribution Frames.	Lot	1	
07-01-20115	-Spare parts & spare units.			
07-01-20116	-Installation materials & tools.			
07-01-20117	-Network Management Equipment consisting of Local Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials & Tools, Documentation & Spare Parts for each item.	Lot	1	
07-01-20118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-20119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-20120	-Factory Training Abroad.	Trainee	1	
07-01-20121	-Training In Iraq.	Trainee	2	
07-01-20122	-Supervision Services (Supplier Expert).	Expert	1	

# Site - Name : BAGHDAD MAINTENANCE CENTER

Code	Item Description	Unit	Qty.	Complement
				ary Items
07-01-21100	SDH Microwave Radio Equipment, STM-1, 13GHZ(2+1) Frequency Diversity Radio Terminal All Complete with Transmitters, Receivers, 128 QAM Modems Modules ,Protection Switch, Engineering order wire channel, 2Mb/s auxiliary	Lot	2	
	traffic, Interface to central Network management, Peripherals ( Lap Top PC , ETC), Installed in Rack with 48V. d/c unit (duplicated).			
07-01-21101	-Installation materials.	Lot	2	
07-01-21102	-Spare parts & spare units.	Lot	2	
07-01-21103	-Documentation.	Set	1	
07-01-21104	Microwave Parabolic Dish (1.8m., 2.4m.)Antenna with (one/ two)Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	0	
07-01-21105	-Microwave Elliptical waveguide Feeder Run, 11/13 GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	1	
07-01-21106	-Medium Capacity Dehydrator.	Unit	1	
07-01-21107	-10% Spares.	Lot	1	
07-01-21108	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(3+1)configuration, 48V, 250Ah Lead- Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-01-21109	-Spare Parts & Spare Units.	Lot	1	
07-01-21110	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	
07-01-21111	AC Power Plant Including Diesel Engine Generator Capacity 50 KVA, Dual Set, all complete with, Daily Fuel Tank, Fan, Piping, Control cubicle & Alarms, Installation Materials, Documentation & Tools	Lot	1	
07-01-21112	-Spare parts & PCB's.	Lot	1	
07-01-21113	-SDH Multiplex Equipment Including STM-16 Multiplexer, STM-4,STM-1Multiplexer Subrack with redundant common units ADM, Terminal configuration, Tributary & Elect. Aggregate Cards (3x34Mb/s, 21x2Mb/s,140/155Mb/s switch, 7x2Mb/s) Access &Connection Modules, Full Matrix (duplicated),Auxiliary /Engineering order wire, Installation Materials & Tools, Racks with power	Lot	1	
	supply unit (duplicated ) and cable head, Digital			

	Distribution Frames & Documentation for each.			
07-01-21114	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configs. Installed in Racks with power supply units, cable head & Digital Distribution Frames.	Lot	1	
07-01-21115	-Spare parts & spare units.			
07-01-21116	-Installation materials & tools.			
07-01-21117	-Network Management Equipment consisting of Local Network Management System platform (Hard ware),System software packages all complete with craft terminals, Mediation, Interface, and connection cards & modules, Installation Materials & Tools, Documentation & Spare Parts for each item.	Lot	1	
07-01-21118	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, RF Sweep Generator, VSWR Test Set, Scalar Network Analyzer, RF Spectrum Analyzer, SDH Analyzer for STM-1,TX / RX MW Link Analyzer, PDH Analyzer (2Mb/s),Oscilloscope 500 MHZ Dual channel, Vedio Test Set, RF Attenuators Fixed & Variable (0 - 60)DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-01-21119	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-01-21120	-Factory Training Abroad.	Trainee	2	
07-01-21121	-Training In Iraq.	Trainee	4	
07-01-21122	-Supervision Services (Supplier Expert).	Expert	1	