

ANNEX SEVEN / Telecommunications
Sub - sector : South Digital Microwave Link Baghdad - Basra and Kut-Nasriya
Site - Name : Sinek

Code	Item Description	Unit	Qty	Complemet ary Items
07-03-01100	SDH Microwave Radio Equipment	Lot	1	
07-03-01101	-STM-1,6GHZ (3+1), Radio Terminal. With Frequency Diversity / Space Diversity all complete.	Set	1	
07-03-01102	-128 QAM Modems Modules.	Set	4	
07-03-01103	-Protection Switch.	Set	1	
07-03-01104	-Engineering order wire channel.	Set	1	
07-03-01105	-2Mb/s auxiliary traffic.	Set	3	
07-03-01106	-Interface to central Network management.	Set	1	
07-03-01107	-Peripherals (Lap Top PC , etc.....)	Set	1	
07-03-01108	-Rack with 48V. d/c unit (duplicated).	Set	2	
07-03-01109	-Installation & Maintenance tools & materials.	Set	1	
07-03-01110	-Spare parts & spare units.	lot	1	
07-03-01111	-Documentation.	Set	1	
07-03-01119	Microwave Antennas	Lot	1	
07-03-01120	-Parabolic Dish (2.4m. - 3m diameter).	Set	2	
07-03-01121	-Antenna Radiation Element with (V&H)Ports.	Set	2	
07-03-01122	-Connector Flanges.	Set	4	
07-03-01123	-Tower Attachment.	Set	2	
07-03-01124	-Installation & Maintenance tools & materials.	Set	2	
07-03-01129	Microwave Feeders	Lot	1	
07-03-01130	-Elliptical waveguide for 6 GHZ band .	Meter	500	
07-03-01131	-Medium capacity dehydrator.	Unit	1	
07-03-01132	-Pressure Window.	Unit		
07-03-01133	-Fixture clamps.	Set	6	
07-03-01134	-Earthing Kits.	Set	6	
07-03-01135	-Installation materials & tools.	Set	6	
07-03-01136	-Documentation.	Set	1	
07-03-01139	DC Power Plant	Lot	1	
07-03-01140	-Modular switched rectifier system 48V / 30Ampere module (10+2) configuration.	Set	1	
07-03-01141	-48V,1000AH Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-01142	-Cabinet.	Set	1	
07-03-01143	-Installation materials , cables, tools.	Set	4	
07-03-01144	- Documentation.	Set	1	
07-03-01149	Air Conditioners	Lot	1	
07-03-01150	-Duplicate 24000 BTU Unit.	Set	2	
07-03-01151	-Piping & installation materials & fixtures.	Set	2	
07-03-01152	-Spare parts.	Set	2	
07-03-01153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complemet ary Items
07-03-01159	Diesel Engine Generator	Lot	1	
07-03-01160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-01161	-Daily Fuel Tank.	Set	1	
07-03-01162	-Fan.	Set	1	
07-03-01163	-Piping.	Set	1	
07-03-01164	-Control cubicle & Alarms.	Set	1	
07-03-01165	-Installation Materials & Tools.	Set	1	
07-03-01166	-Spare parts & PCB's.	Set	1	
07-03-01167	-Documentation.	Set	1	
07-03-01169	SDH Multiplex Equipment	Lot	1	
07-03-01170	-STM-4 Mutlplexer Subrack with redundant common units	Set	4	
07-03-01171	-STM-1 Multiplex Subrack with redundant common units	Set	3	
07-03-01171	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	3	
07-03-01172	-Access & Connection Modules.	Set	3	
07-03-01173	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP	Lot	-	
07-03-01174	containd in subracks with common units & with function units, controllers ,connectors, ETC.....	Unit	14	
07-03-01175	-Full Matrix (duplicated).			
07-03-01175	-Auxiliary /Engineering order wire.			
07-03-01176	-Telephone Handset.	Set	2	
07-03-01176	-Installation Materials & Tools.	Lot	2	
07-03-01177	-Racks with power supply unit (duplicated)and cable head.	Lot	2	
07-03-01178	-Digital Distribution Frames.	Set	6	
07-03-01179	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	6	
07-03-01180			20	
07-03-01181	-Equipment craft terminal for programmed control and display with operation soft ware .	Unit	2	
07-03-01182	-Spare parts & spare units.			
07-03-01182	-Installation materials & tools.			
07-03-01183	-Documentation.	Lot	2	
07-03-01183			2	
07-03-01184		Lot	2	
07-03-01185		Set		
07-03-01189	Network Management Equipment	Lot	1	
07-03-01190	-Central Network Management System platform(Hard ware)	Lot	1	
07-03-01191	-Central Network Management System software packages.	Set	1	
07-03-01191	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-01192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-01192	-Installation Materials & Tools.	Set	1	
07-03-01193	-Documentation..			
07-03-01194				
07-03-01195				

Code	Item Description	Unit	Qty	Complemetary Items
07-03-01119	Test Instruments	Lot	1	
07-03-01200	-Digital Multimeter.	Set	2	
07-03-01201	-Frequency Counter .	Set	1	
07-03-01202	-Power Meter .	Set	1	
07-03-01203	-PCM Multiplex Tester .	Set	1	
07-03-01204	-RF Sweep Generator .	Set	0	
07-03-01205	-VSWR Test Set.	Set	0	
07-03-01206	-Scalar Network Analyzer .	Set	0	
07-03-01207	-RF Spectrum Analyzer.	Set	0	
07-03-01208	-SDH Analyzer for STM-1.	Set	1	
07-03-01209	-TX / RX MW Link Analyzer .	Set	0	
07-03-01210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-01211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-01212	-Vedio Test Set.	Set	0	
07-03-01213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	0	
07-03-01214	-Cables & Adapters.	Set	1	
07-03-01215	-Waveguide / Coax. Adapters.	Set	0	
07-03-01216	-Documentation.	Set	1	
07-03-01219	Specific Tools	Lot	1	
07-03-01220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-01221	-Specific Maintenance Tools	Lot	1	
07-03-01222	-Station Tools	Lot	1	
07-03-01223	-Special Tools for waveguide.	Lot	1	
07-03-01224	-Installation Tools.	Lot	1	
07-03-01229	Services	Lot	1	
07-03-01230	-Factory Training Abroad.	Trainee	5	
07-03-01231	-Training In Iraq.	Trainee	8	
07-03-01232	-Supervision Services (Supplier Expert).	Expert	2	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad - Basra and Kut-Nasriya

Site - Name : Basra Ex.

Code	Item Description	Unit	Qty	Complemetary Items
07-03-02100	SDH Microwave Radio Equipment	Lot	1	
07-03-02101	-STM-1 6GHZ, (3+1),& (1+1) &(1+2),11GHZ Radio Terminals With Frequency &Space Diversity all complete.	Set		
	-128 QAM Modems Modules.	Set	9	
07-03-02102	-Protection Switch.	Set	3	
07-03-02103	-Engineering order wire channel.	Set	3	
07-03-02104	-2Mb/s auxiliary traffic.	Set	5	
07-03-02105	-Interface to central Network management.	Set	3	
07-03-02106	-Peripherals (Lap Top PC , etc.....)	Set	1	
07-03-02107	-Rack with 48V. d/c unit (duplicated).	Set	4	
07-03-02108	-Installation & Maintenance tools & materials.	Set	3	
07-03-02109	-Spare parts & spare units.	lot	1	
07-03-02110	-Documentation.	Set	2	
07-03-02111				
07-03-02119	Microwave Antennas	Lot	1	
07-03-02120	-Parabolic Dish (1.8m.-3.7m. diameter).	Set	5	
07-03-02121	-Antenna Radiation Element with (1 / 2 / 4)Ports.	Set	5	
07-03-02122	-Connector Flanges.	Set	10	
07-03-02123	-Tower Attachment.	Set	5	
07-03-02124	-Installation & Maintenance tools & materials.	Set	5	
07-03-02129	Microwave Feeders	Lot	1	
07-03-02130	-Elliptical waveguide for 13/11/6 GHZ band .	Meter	500	
07-03-02131	-Medium capacity dehydrator.	Unit	1	
07-03-02132	-Pressure Window.	Unit	5	
07-03-02133	-Fixture clamps.	Set	5	
07-03-02134	-Earthing Kits.	Set	5	
07-03-02135	-Installation materials & tools.	Set	5	
07-03-02136	-Documentation.	Set	1	
07-03-02139	DC Power Plant	Lot	1	
07-03-02140	-Modular switched rectifier system 48V / 30Ampere module (10+2) configuration.	Set	1	
07-03-02141	-48V,1000Ah Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-02142	-Cabinet.	Set	1	
07-03-02143	-Installation materials , cables, tools.	Set	4	
07-03-02144	- Documentation.	Set	1	
			1	
07-03-02149	Air Conditioners	Lot	1	
07-03-02150	-Duplicated 18000 / 24000 BTU Unit.	Set	2	
07-03-02151	-Piping & installation materials & fixtures.	Set	2	
07-03-02152	-Spare parts.	Set	2	
07-03-02153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-02159	Diesel Engine Generator	Lot	1	
07-03-02160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-02161	-Daily Fuel Tank.	Set	1	
07-03-02162	-Fan.	Set	1	
07-03-02163	-Piping.	Set	1	
07-03-02164	-Control cubicle & Alarms.	Set	1	
07-03-02165	-Installation Materials & Tools.	Set	1	
07-03-02166	-Spare parts & PCB's.	Set	1	
07-03-02167	-Documentation.	Set	1	
07-03-02169	SDH Multiplex Equipment	Lot	1	
07-03-02170	-STM-4 Mutlplexer Subrack with redundant common units	Set	4	
07-03-02171	-STM-1 Multiplex Subrack with redundant common units	Set	5	
07-03-02171	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	5	
07-03-02172	-Access & Connection Modules.	Set	5	
07-03-02173	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	6	
07-03-02174	-Full Matrix (duplicated).	Unit	10	
07-03-02175	-Auxiliary /Engineering order wire.	Set	3	
07-03-02176	-Telephone Handset.	Lot	2	
07-03-02176	-Installation Materials & Tools.	Lot	2	
07-03-02177	-Racks with power supply unit (duplicated)and cable head.	Set	6	
07-03-02178	-Digital Distribution Frames for 300systems.	Set	1	
07-03-02179	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	16	
07-03-02180				
07-03-02181	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	2	
07-03-02182	-Spare parts & spare units.	Lot	3	
07-03-02182	-Installation materials & tools.	Lot	2	
07-03-02183	-Documentation.	Set	2	
07-03-02184				
07-03-02185				
07-03-02189	Network Management Equipment	Lot	1	
07-03-02190	-Central Network Management System platform(Hardware)	Lot	1	
07-03-02191	-Central Network Management System software packages.	Set	1	
07-03-02191	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-02192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-02193	-Installation Materials & Tools.	Set	1	
07-03-02194	-Documentation..			
07-03-02195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-02119	Test Instruments	Lot	1	
07-03-02200	-Digital Multimeter.	Set	2	
07-03-02201	-Frequency Counter .	Set	1	
07-03-02202	-Power Meter .	Set	1	
07-03-02203	-PCM Multiplex Tester .	Set	1	
07-03-02204	-RF Sweep Generator .	Set	0	
07-03-02205	-VSWR Test Set.	Set	1	
07-03-02206	-Scalar Network Analyzer .	Set	0	
07-03-02207	-RF Spectrum Analyzer.	Set	1	
07-03-02208	-SDH Analyzer for STM-1.	Set	1	
07-03-02209	-TX / RX MW Link Analyzer .	Set	1	
07-03-02210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-02211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-02212	-Vedio Test Set.	Set	1	
07-03-02213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-02214	-Cables & Adapters.	Set	1	
07-03-02215	-Waveguide / Coax. Adapters.	Set	1	
07-03-02216	-Documentation.	Set	1	
07-03-02219	Specific Tools	Lot	1	
07-03-02220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-02221	-Specific Maintenance Tools	Lot	1	
07-03-02222	-Station Tools	Lot	1	
07-03-02223	-Special Tools for waveguide.	Lot	1	
07-03-02224	-Installation Tools.	Lot	1	
07-03-02229	Services	Lot	1	
07-03-02230	-Factory Training Abroad.	Trainee	4	
07-03-02231	-Training In Iraq.	Trainee	8	
07-03-02232	-Supervision Services (Supplier Expert).	Expert	2	

ANNEX SEVEN / Telecommunications

**Sub- sector : South Digital Microwave Link Baghdad - Basra and Kut-Nasriya -
Site - Name : MADAEN**

Code	Item Description	Unit	Qty	Complemetary Items
07-03-03100	SDH Microwave Radio Equipment	Lot	1	
07-03-03101	-STM-1,6GHZ (3+1),(1+1), Radio Terminals With Frequency Diversity / Space Diversity all complete.	Set	3	
07-03-03102	-128 QAM Modems Modules.	Set	10	
07-03-03103	-Protection Switch.	Set	3	
07-03-03104	-Engineering order wire channel.	Set	2	
07-03-03105	-2Mb/s auxiliary traffic.	Set	4	
07-03-03106	-Interface to central Network management.	Set	2	
07-03-03107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-03108	-Rack with 48V. d/c unit (duplicated).	Set	4	
07-03-03109	-Installation & Maintenance tools & materials.	Set	2	
07-03-03110	-Spare parts & spare units.	Set	2	
07-03-03111	-Documentation.	Set	1	
07-03-03119	Microwave Antennas	Lot	1	
07-03-03120	-Parabolic Dish (2.4m.-3.3m. diameter).	Set	6	
07-03-03121	-Antenna Radiation Element with (1 / 2 / 4)Ports.	Set	6	
07-03-03122	-Connector Flanges.	Set	6	
07-03-03123	-Tower Attachment.	Set	6	
07-03-03124	-Installation & Maintenance tools & materials.	Set	6	
07-03-03129	Microwave Feeders	Lot	1	
07-03-03130	-Elliptical waveguide for 6 GHZ band .	Meter	600	
07-03-03131	-Medium capacity dehydrator.	Unit	1	
07-03-03132	-Pressure Window.	Unit	6	
07-03-03133	-Fixture clamps.	Set	6	
07-03-03134	-Earthing Kits.	Set	6	
07-03-03135	-Installation materials & tools.	Set	2	
07-03-03136	-Documentation.	Set	1	
07-03-03139	DC Power Plant	Lot	1	
07-03-03140	-Modular switched rectifier system 48V / 30Ampere module (3+1) configuration.	Set	1	
07-03-03141	-48V, 300Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-03-03142	-Cabinet.	Set	1	
07-03-03143	-Installation materials , cables, tools.	Set	2	
07-03-03144	-Documentation.	Set	1	
07-03-03149	Air Conditioners	Lot	1	
07-03-03150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-03151	-Piping & installation materials & fixtures.	Set	2	
07-03-03152	-Spare parts.	Set	2	
07-03-03153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complemetary Items
07-03-03159	Diesel Engine Generator	Lot	1	
07-03-03160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-03161	-Daily Fuel Tank.	Set	1	
07-03-03162	-Fan.	Set	1	
07-03-03163	-Piping.	Set	1	
07-03-03164	-Control cubicle & Alarms.	Set	1	
07-03-03165	-Installation Materials & Tools.	Set	1	
07-03-03166	-Spare parts & PCB's.	Set	1	
07-03-03167	-Documentation.	Set	1	
07-03-03169	SDH Multiplex Equipment	Lot	1	
07-03-03170	-STM-4 Mutlplexer Subrack with redundant common units	Set	1	
07-03-03171	-STM-1 Multiplex Subrack with redundant common units	Set	4	
07-03-03171	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	5	
07-03-03172	-Access & Connection Modules.	Set	5	
07-03-03173	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units,controllers ,connectors, ETC.....	Lot	1	
07-03-03174	-Full Matrix (duplicated).	Unit	5	
07-03-03175	-Auxiliary /Engineering order wire.	Set	2	
07-03-03176	-Telephone Handset.	Lot	2	
07-03-03177	-Installation Materials & Tools.	Lot	2	
07-03-03178	-Racks with power supply unit (duplicated)and cable head.	Set	2	
07-03-03179	-Digital Distribution Frames.	Set	2	
07-03-03180	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	2	
07-03-03181	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	2	
07-03-03182	-Spare parts & spare units.	Unit	2	
07-03-03183	-Installation materials & tools.	Lot	2	
07-03-03184	-Documentation.	Set	1	
07-03-03185				
07-03-03189	Network Management Equipment	Lot	1	
07-03-03190	-Central Network Management System platform(Hardware)	Lot	0	
07-03-03191	-Central Network Management System software packages.	Set	0	
07-03-03191	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-03192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-03193	-Installation Materials & Tools.	Lot	1	
07-03-03194	-Documentation..	Set	1	
07-03-03195				

Code	Item Description	Unit	Qty	Complemetary Items
07-03-03119	Test Instruments	Lot	1	
07-03-03200	-Digital Multimeter.	Set	2	
07-03-03201	-Frequency Counter .	Set	1	
07-03-03202	-Power Meter .	Set	1	
07-03-03203	-PCM Multiplex Tester .	Set	1	
07-03-03204	-RF Sweep Generator .	Set	0	
07-03-03205	-VSWR Test Set.	Set	0	
07-03-03206	-Scalar Network Analyzer .	Set	0	
07-03-03207	-RF Spectrum Analyzer.	Set	0	
07-03-03208	-SDH Analyzer for STM-1.	Set	0	
07-03-03209	-TX / RX MW Link Analyzer .	Set	0	
07-03-03210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-03211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-03212	-Vedio Test Set.	Set	0	
07-03-03213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	0	
07-03-03214	-Cables & Adapters.	Set	1	
07-03-03215	-Waveguide / Coax. Adapters.	Set	0	
07-03-03216	-Documentation.	Set	1	
07-03-03219	Specific Tools	Lot	1	
07-03-03220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-03221	-Specific Maintenance Tools	Lot	1	
07-03-03222	-Station Tools	Lot	1	
07-03-03223	-Special Tools for waveguide.	Lot	1	
07-03-03224	-Installation Tools.	Lot	1	
07-03-03229	Services	Lot	1	
07-03-03230	-Factory Training Abroad.	Trainee	2	
07-03-03231	-Training In Iraq.	Trainee	4	
07-03-03232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : : South Digital Microwave Link Baghdad - Basra and Kut-Nasriya
Site - Name : BASRA T.

Code	Item Description	Unit	Qty	Complemetary Items
07-03-04100	SDH Microwave Radio Equipment	Lot	1	
07-03-04101	-STM-1,13/11/8/6GHZ (3+1), Radio Terminal. With Frequency Diversity / Space Diversity all complete.	Set	2	
07-03-04102	-128 QAM Modems Modules.	Set	8	
07-03-04103	-Protection Switch.	Set	2	
07-03-04104	-Engineering order wire channel.	Set	1	
07-03-04105	-2Mb/s auxiliary traffic.	Set	1	
07-03-04106	-Interface to central Network management.	Set	1	
07-03-04107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-04108	-Rack with 48V. d/c unit (duplicated).	Set	3	
07-03-04109	-Installation & Maintenance tools & materials.	Set	2	
07-03-04110	-Spare parts & spare units.	Set	2	
07-03-04111	-Documentation.	Set	1	
07-03-04119	Microwave Antennas	Lot	1	
07-03-04120	-Parabolic Dish (1.8m.-3.7m. diameter).	Set	3	
07-03-04121	-Antenna Radiation Element with (1 / 2 / 4)Ports.	Set	3	
07-03-04122	-Connector Flanges.	Set	6	
07-03-04123	-Tower Attachment.	Set	3	
07-03-04124	-Installation & Maintenance tools & materials.	Set	3	
07-03-04129	Microwave Feeders	Lot	1	
07-03-04130	-Elliptical waveguide for 13/11/8/6 GHZ band .	Meter	300	
07-03-04131	-Medium capacity dehydrator.	Unit	1	
07-03-04132	-Pressure Window.	Unit	3	
07-03-04133	-Fixture clamps.	Set	3	
07-03-04134	-Earthing Kits.	Set	3	
07-03-04135	-Installation materials & tools.	Set	3	
07-03-04136	-Documentation.	Set	1	
07-03-04139	DC Power Plant	Lot	1	
07-03-04140	-Modular switched rectifier system 48V / 30Ampere module (4+1) configuration.	Set	1	
07-03-04141	-48V, 300Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-03-04142	-Cabinet.	Set	1	
07-03-04143	-Installation materials , cables, tools.	Set	2	
07-03-04144	-Documentation.	Set	1	
07-03-04149	Air Conditioners	Lot	1	
07-03-04150	-Duplicated 18000 / 24000 BTU Unit.	Set	2	
07-03-04151	-Piping & installation materials & fixtures.	Set	2	
07-03-04152	-Spare parts.	Set	2	
07-03-04153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complemet ary Items
07-03-04159	Diesel Engine Generator	Lot	1	
07-03-04160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-04161	-Daily Fuel Tank.	Set	1	
07-03-04162	-Fan.	Set	1	
07-03-04163	-Piping.	Set	1	
07-03-04164	-Control cubicle & Alarms.	Set	1	
07-03-04165	-Installation Materials & Tools.	Set	1	
07-03-04166	-Spare parts & PCB's.	Set	1	
07-03-04167	-Documentation.	Set	1	
07-03-04169	SDH Multiplex Equipment	Lot	1	
07-03-04170	-STM-4 Mutlplexer Subrack with redundant common units	Set	2	
07-03-04171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-04171	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	3	
07-03-04172	-Access & Connection Modules.	Set	2	
07-03-04173	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP containd in subracks with common units & with function	Lot	5	
07-03-04174	units,controllers ,connectors, ETC.....			
	-Full Matrix (duplicated).	Unit	4	
07-03-04175	-Auxiliary /Engineering order wire.	Set	1	
07-03-04176	-Telephone Handset.	Lot	1	
07-03-04176	-Installation Materials & Tools.	Lot	2	
07-03-04177	-Racks with power supply unit (duplicated)and cable head.	Set	3	
07-03-04178	-Digital Distribution Frames.	Set	3	
07-03-04179	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	1	
07-03-04180	-Equipment craft terminal for programmed control and	Set	1	
07-03-04181	display with operation soft ware .			
07-03-04182	-Spare parts & spare units.	Lot	2	
07-03-04182	-Installation materials & tools.	Lot	2	
07-03-04183	-Documentation.	Set	1	
07-03-04184				
07-03-04185				
07-03-04189	Network Management Equipment	Lot	1	
07-03-04190	-Central Network Management System platform(Hard ware)	Lot	0	
		Set	0	
07-03-04191	-Central Network Management System software packages.	Lot	1	
07-03-04191	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-04192	-Mediation , Interface, and connection cards &modules.	Lot	1	
	-Installation Materials & Tools.	Set	1	
07-03-04193	-Documentation..			
07-03-04194				
07-03-04195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-04119	Test Instruments	Lot	1	
07-03-04200	-Digital Multimeter.	Set	1	
07-03-04201	-Frequency Counter .	Set	0	
07-03-04202	-Power Meter .	Set	0	
07-03-04203	-PCM Multiplex Tester .	Set	1	
07-03-04204	-RF Sweep Generator .	Set	0	
07-03-04205	-VSWR Test Set.	Set	0	
07-03-04206	-Scalar Network Analyzer .	Set	0	
07-03-04207	-RF Spectrum Analyzer.	Set	0	
07-03-04208	-SDH Analyzer for STM-1.	Set	0	
07-03-04209	-TX / RX MW Link Analyzer .	Set	0	
07-03-04210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-04211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-04212	-Vedio Test Set.	Set	0	
07-03-04213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	0	
07-03-04214	-Cables & Adapters.	Set	0	
07-03-04215	-Waveguide / Coax. Adapters.	Set	0	
07-03-04216	-Documentation.	Set	1	
07-03-04219	Specific Tools	Lot	1	
07-03-04220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-04221	-Specific Maintenance Tools	Lot	0	
07-03-04222	-Station Tools	Lot	1	
07-03-04223	-Special Tools for waveguide.	Lot	1	
07-03-04224	-Installation Tools.	Lot	1	
07-03-04229	Services	Lot	1	
07-03-04230	-Factory Training Abroad.	Trainee	1	
07-03-04231	-Training In Iraq.	Trainee	3	
07-03-04232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad - Basra and Kut-Nasriya

Site - Name : BAGHDAD MAINTENANCE CENTER

Code	Item Description	Unit	Qty.	Complementary Items
07-03-05100	SDH Microwave Radio Equipment	Lot	1	
07-03-05101	-STM-1, 6 GHZ (3+1)&11GHZ Radio Terminal with Frequency & Space Diversity Receiver modules.	Set	3	
07-03-05102	-128 QAM Modems Modules.	Set	9	
07-03-05103	-Protection Switch.	Set	3	
07-03-05104	-Engineering order wire channel.	Set	1	
07-03-05105	-2Mb/s auxiliary traffic.	Set	1	
07-03-05106	-Interface to central network management.	Set	1	
07-03-05107	-Peripherals (Lap Top PC ,ETC.....).	Set	1	
07-03-05108	-Rack with 48V. d/c unit & Duplexers.	Set	3	
07-03-05109	-Installation & Maintenance tools & materials.	Set	1	
07-03-05110	-Spare parts & spare units.	Set	1	
07-03-05111	-Documentation.	lot	1	
		Set	1	
07-03-05119	Microwave Antennas	Lot	1	
07-03-05120	-Parabolic Dish (1.8m. ,2.4m.&3.0m diameter).	Set	6	
07-03-05121	-Antenna Radiation Element with (one/two)Ports.	Set	6	
07-03-05122		Set	12	
07-03-05123	-Connector Flanges.	Set	6	
07-03-05124	-Tower Attachment.	Set	6	
	-Installation & Maintenance tools & materials.			
07-03-05129	Microwave Feeders	Lot	1	
07-03-05130	-Elliptical waveguide for6GHZ& 11/13 GHZ band .	Meter	300	
		Unit	1	
07-03-05131	-Medium capacity dehydrator.	Unit	6	
07-03-05132	-Pressure Window.	Set	6	
07-03-05133	-Fixture clamps.	Set	6	
07-03-05134	-Earthing Kits.	Set	6	
07-03-05135	-Installation materials & tools.	Set	1	
07-03-05136	-Documentation.			
07-03-05139	DC Power Plant	Lot	1	
07-03-05140	-Modular switched rectifier system 48V / 30A per module (2+1) configuration.	Set	1	
07-03-05141	-48V,200Ah Lead-Acid Sealed-Batteries(2sets).	Set	1	
07-03-05142	-Cabinet.	Set	1	
07-03-05143	-Installation materials , cables, & tools.	Set	1	
07-03-05144	-Documentation.	Set	1	
07-03-05149	Air Conditioners	Lot	1	
07-03-05150	-Duplicated 18000 / 24000 BTU Unit.	Set	2	
07-03-05151	-Piping & installation materials & fixtures.	Set	2	
07-03-05152	-Spare parts.	Set	2	
07-03-05153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-05159	Diesel Engine Generator	Lot	1	
07-03-05160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-05161	-Daily Fuel Tank.	Set	1	
07-03-05162	-Fan.	Set	1	
07-03-05163	-Piping.	Set	1	
07-03-05164	-Control cubicle & Alarms.	Set	1	
07-03-05165	-Installation Materials & Tools.	Set	1	
07-03-05166	-Spare parts & PCB's.	Set	1	
07-03-05167	-Documentation.	Set	1	
07-03-05169	SDH Multiplex Equipment	Lot	1	
07-03-05170	-STM- 4 Mutliplexer Subrack with redundant common units.	Set	2	
07-03-05171	-STM-1 Multiplex Subrack with redundant common units.	Set	2	
07-03-05172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch, 7x2Mb/setc.	Set	2	
07-03-05173	-Access & Connection Modules.	Set	2	
07-03-05174	-S4.1 Aggregate port FC / PC (duplicated).	Set	0	
07-03-05175	-Full Matrix (duplicated).	Set	2	
07-03-05176	-Auxiliary /Engineering order wire.	Set	2	
07-03-05177	-Telephone Handset.	Unit	2	
07-03-05178	-Installation Materials & Tools.	Set	2	
07-03-05179	-Racks with power supply unit (duplicated) and cable head.	Set	4	
07-03-05180	-Digital Distribution Frames.	Set	1	
07-03-05181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	1	
07-03-05182	-Equipment craft terminal for programmed control and display for operation and maintenance.	Unit	2	
07-03-05183	-Spare parts & spare units.	Set	2	
07-03-05184	-Installation materials & tools.	Set	1	
07-03-05185	-Documentation.	Set	1	
07-03-05189	Network Management Equipment	Lot	1	
07-03-05190	-Central Network Management System platform (Hard ware).	Lot	1	
07-03-05191	-Central Network Management System software packages.	Lot	1	
07-03-05192	-Local Network Management Equipment (craft terminals).	Set	1	
07-03-05193	-Mediation , Interface, & connection cards & modules.	Lot	1	
07-03-05194	-Installation Materials & Tools.	Set	1	
07-03-05195	-Documentation..	Set	1	
07-03-05196	HDSL Equipment with all Function &Management modules, DDF, Cables, Software &Doc.s	Lot	2	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-05199	Test Instruments	Lot	1	
07-03-05200	-Digital Multimeter.	Set	2	
07-03-05201	-Frequency Counter .	Set	2	
07-03-05202	-Power Meter .	Set	2	
07-03-05203	-PCM Multiplex Tester .	Set	2	
07-03-05204	-RF Sweep Generator .	Set	1	
07-03-05205	-VSWR Test Set.	Set	3	
07-03-05206	-Scalar Network Analyzer .	Set	1	
07-03-05207	-RF Spectrum Analyzer.	Set	1	
07-03-05208	-SDH Analyzer for STM-1.	Set	1	
07-03-05209	-TX / RX MW Link Analyzer .	Set	1	
07-03-05210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-05211	-Oscilloscope 500 MHZ Dual channel.	Set	1	
07-03-05212	-Vedio Test Set.	Set	1	
07-03-05213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-05214	-Cables & Adapters.	Set	2	
07-03-05215	-Waveguide / Coax. Adapters.	Set	2	
07-03-05216	-Documentation.	Set	1	
07-03-05219	Specific Tools	Lot	1	
07-03-05220	-20 Ton Lorry with crane & winch.	Unit	1	
07-03-05221	-Specific Maintenance Tools Bag.	Unit	4	
07-03-05222	-Station Tools Bag.	Unit	4	
07-03-05223	-Special Tools for waveguide.	Unit	4	
07-03-05224	-Installation Tools.	Unit	1	
07-03-05229	Services	Lot	1	
07-03-05230	-Factory Training Abroad.	Trainee	10	
07-03-05231	-Training In Iraq.	Trainee	12	
07-03-05232	-Supervision Services (Supplier Expert).	Expert	8	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad - Basra and Kut-Nasriya

Site - Name : BASRA MAINTENANCE CENTER

Code	Item Description	Unit	Qty.	Complementary Items
07-03-06100	SDH Microwave Radio Equipment	Lot	1	
07-03-06101	-STM-1, 6 GHZ (3+1)&11GHZ Radio Terminal with Frequency & Space Diversity Receiver modules.	Set	3	
07-03-06102	-128 QAM Modems Modules.	Set	9	
07-03-06103	-Protection Switch.	Set	3	
07-03-06104	-Engineering order wire channel.	Set	1	
07-03-06105	-2Mb/s auxiliary traffic.	Set	1	
07-03-06106	-Interface to central network management.	Set	1	
07-03-06107	-Peripherals (Lap Top PC ,ETC.....).	Set	3	
07-03-06108	-Rack with 48V. d/c unit & Duplexers.	Set	1	
07-03-06109	-Installation & Maintenance tools & materials.	Set	1	
07-03-06110	-Spare parts & spare units.	lot	1	
07-03-06111	-Documentation.	Set	1	
07-03-06119	Microwave Antennas	Lot	1	
07-03-06120	-Parabolic Dish (1.8m. ,2.4m.&3.0m diameter).	Set	6	
07-03-06121	-Antenna Radiation Element with (one/two)Ports.	Set	6	
07-03-06122		Set	12	
07-03-06123	-Connector Flanges.	Set	6	
07-03-06124	-Tower Attachment.	Set	6	
	-Installation & Maintenance tools & materials.			
07-03-06129	Microwave Feeders	Lot	1	
07-03-06130	-Elliptical waveguide for6GHZ& 11/13 GHZ band .	Meter	300	
07-03-06131	-Medium capacity dehydrator.	Unit	1	
07-03-06132	-Pressure Window.	Unit	6	
07-03-06133	-Fixture clamps.	Set	6	
07-03-06134	-Earthing Kits.	Set	6	
07-03-06135	-Installation materials & tools.	Set	1	
07-03-06136	-Documentation.			
07-03-06139	DC Power Plant	Lot	1	
07-03-06140	-Modular switched rectifier system 48V / 30A per module (2+1) configuration.	Set	1	
07-03-06141	-48V,200Ah Lead-Acid Sealed-Batteries(2sets).	Set	1	
07-03-06142	-Cabinet.	Set	1	
07-03-06143	-Installation materials , cables, & tools.	Set	1	
07-03-06144	-Documentation.	Set	1	
07-03-06149	Air Conditioners	Lot	1	
07-03-06150	-Duplicated 18000 / 24000 BTU Unit.	Set	2	
07-03-06151	-Piping & installation materials & fixtures.	Set	2	
07-03-06152	-Spare parts.	Set	2	
07-03-06153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-06159	Diesel Engine Generator	Lot	1	
07-03-06160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-06161	-Daily Fuel Tank.	Set	1	
07-03-06162	-Fan.	Set	1	
07-03-06163	-Piping.	Set	1	
07-03-06164	-Control cubicle & Alarms.	Set	1	
07-03-06165	-Installation Materials & Tools.	Set	1	
07-03-06166	-Spare parts & PCB's.	Set	1	
07-03-06167	-Documentation.	Set	1	
07-03-06169	SDH Multiplex Equipment	Lot	1	
07-03-06170	-STM- 4 Mutliplexer Subrack with redundant common units.	Set	2	
07-03-06171	-STM-1 Multiplex Subrack with redundant common units.	Set	2	
07-03-06172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch, 7x2Mb/setc.	Set	2	
07-03-06173	-Access & Connection Modules.	Set	2	
07-03-06174	-S4.1 Aggregate port FC / PC (duplicated).	Set	0	
07-03-06175	-Full Matrix (duplicated).	Set	2	
07-03-06176	-Auxiliary /Engineering order wire.	Set	2	
07-03-06177	-Telephone Handset.	Unit	2	
07-03-06178	-Installation Materials & Tools.	Set	2	
07-03-06179	-Racks with power supply unit (duplicated) and cable head.	Set	4	
07-03-06180	-Digital Distribution Frames.	Set	1	
07-03-06181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	1	
07-03-06182	-Equipment craft terminal for programmed control and display for operation and maintenance.	Unit	2	
07-03-06183	-Spare parts & spare units.	Set	2	
07-03-06184	-Installation materials & tools.	Set	1	
07-03-06185	-Documentation.	Set	1	
07-03-06189	Network Management Equipment	Lot	1	
07-03-06190	-Central Network Management System platform (Hard ware).	Lot	1	
07-03-06191	-Central Network Management System software packages.	Lot	1	
07-03-06192	-Local Network Management Equipment (craft terminals).	Set	1	
07-03-06193	-Mediation , Interface, & connection cards & modules.	Lot	1	
07-03-06194	-Installation Materials & Tools.	Set	1	
07-03-06195	-Documentation..	Set	1	
07-03-06196	HDSL Equipment with all Function &Management modules, DDF, Cables, Software &Doc.s	Lot	2	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-06199	Test Instruments	Lot	1	
07-03-06200	-Digital Multimeter.	Set	2	
07-03-06201	-Frequency Counter .	Set	2	
07-03-06202	-Power Meter .	Set	2	
07-03-06203	-PCM Multiplex Tester .	Set	2	
07-03-06204	-RF Sweep Generator .	Set	1	
07-03-06205	-VSWR Test Set.	Set	3	
07-03-06206	-Scalar Network Analyzer .	Set	1	
07-03-06207	-RF Spectrum Analyzer.	Set	1	
07-03-06208	-SDH Analyzer for STM-1.	Set	1	
07-03-06209	-TX / RX MW Link Analyzer .	Set	1	
07-03-06210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-06211	-Oscilloscope 500 MHZ Dual channel.	Set	1	
07-03-06212	-Vedio Test Set.	Set	1	
07-03-06213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-06214	-Cables & Adapters.	Set	2	
07-03-06215	-Waveguide / Coax. Adapters.	Set	2	
07-03-06216	-Documentation.	Set	1	
07-03-06219	Specific Tools	Lot	1	
07-03-06220	-20 Ton Lorry with crane & winch.	Unit	1	
07-03-06221	-Specific Maintenance Tools Bag.	Unit	4	
07-03-06222	-Station Tools Bag.	Unit	4	
07-03-06223	-Special Tools for waveguide.	Unit	4	
07-03-06224	-Installation Tools.	Unit	1	
07-03-06229	Services	Lot	1	
07-03-06230	-Factory Training Abroad.	Trainee	10	
07-03-06231	-Training In Iraq.	Trainee	12	
07-03-06232	-Supervision Services (Supplier Expert).	Expert	8	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad - Basra - and Kut-Nasriya

Site - Name : BAGHDAD TRAINING CENTER

Code	Item Description	Unit	Qty.	Complementary Items
07-03-07100	SDH Microwave Radio Equipment	Lot	1	
07-03-07101	-STM-1, 6 GHZ (2+1) Radio Terminal with Frequency & Space Diversity Receiver modules.	Set	2	
07-03-07102	-128 QAM Modems Modules.	Set	6	
07-03-07103	-Protection Switch.	Set	1	
07-03-07104	-Engineering order wire channel.	Set	1	
07-03-07105	-2Mb/s auxiliary traffic.	Set	1	
07-03-07106	-Interface to central network management.	Set	1	
07-03-07107	-Peripherals (Lap Top PC ,ETC.....).	Set	1	
07-03-07108	-Rack with 48V. d/c unit & Duplexers.	Set	3	
07-03-07109	-Installation & Maintenance tools & materials.	Set	1	
07-03-07110	-Spare parts & spare units.	Set	1	
07-03-07111	-Documentation.	Set	1	
07-03-07119	Microwave Antennas	Lot	1	
07-03-07120	-Parabolic Dish (1.8m. , 2.4m. diameter).	Set	0	
07-03-07121	-Antenna Radiation Element with (one/two)Ports.	Set	0	
07-03-07122		Set	0	
07-03-07123	-Connector Flanges.	Set	0	
07-03-07124	-Tower Attachment.	Set	0	
	-Installation & Maintenance tools & materials.			
07-03-07129	Microwave Feeders	Lot	1	
07-03-07130	-Elliptical waveguide for 11/13 GHZ band .	Meter	20	
07-03-07131	-Medium capacity dehydrator.	Unit	1	
07-03-07132	-Pressure Window.	Unit	1	
07-03-07133	-Fixture clamps.	Set	1	
07-03-07134	-Earthing Kits.	Set	1	
07-03-07135	-Installation materials & tools.	Set	1	
07-03-07136	-Documentation.	Set	1	
07-03-07139	DC Power Plant	Lot	1	
07-03-07140	-Modular switched rectifier system 48V / 30A per module (2+1) configuration.	Set	1	
07-03-07141	-48V,200Ah Lead-Acid Sealed-Batteries(2sets).	Set	1	
07-03-07142	-Cabinet.	Set	1	
07-03-07143	-Installation materials , cables, & tools.	Set	1	
07-03-07144	-Documentation.	Set	1	
07-03-07149	Air Conditioners	Lot	1	
07-03-07150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-07151	-Piping & installation materials & fixtures.	Set	2	
07-03-07152	-Spare parts.	Set	2	
07-03-07153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-07159	Diesel Engine Generator	Lot	0	
07-03-07160	-Capacity 50 KVA, Dual Set.	Set	0	
07-03-07161	-Daily Fuel Tank.	Set	0	
07-03-07162	-Fan.	Set	0	
07-03-07163	-Piping.	Set	0	
07-03-07164	-Control cubicle & Alarms.	Set	0	
07-03-07165	-Installation Materials & Tools.	Set	0	
07-03-07166	-Spare parts & PCB's.	Set	0	
07-03-07167	-Documentation.	Set	0	
07-03-07169	SDH Multiplex Equipment	Lot	1	
07-03-07170	-STM- 4 Mutliplexer Subrack with redundant common units.	Set	0	
07-03-07171	-STM-1 Multiplex Subrack with redundant common units.	Set	0	
07-03-07172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch, 7x2Mb/setc.	Set	0	
07-03-07173	-Access & Connection Modules.	Set	0	
07-03-07174	-S4.1 Aggregate port FC / PC (duplicated).	Set	0	
07-03-07175	-Full Matrix (duplicated).	Set	0	
07-03-07176	-Auxiliary /Engineering order wire.	Set	0	
07-03-07177	-Telephone Handset.	Unit	0	
07-03-07178	-Installation Materials & Tools.	Set	0	
07-03-07179	-Racks with power supply unit (duplicated) and cable head.	Set	0	
07-03-07180	-Digital Distribution Frames.	Set	0	
07-03-07181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	1	
07-03-07182	-Equipment craft terminal for programmed control and display for operation and maintenance.	Unit	0	
07-03-07183	-Spare parts & spare units.	Set	0	
07-03-07184	-Installation materials & tools.	Set	0	
07-03-07185	-Documentation.	Set	0	
07-03-07189	Network Management Equipment	Lot	0	
07-03-07190	-Central Network Management System platform (Hard ware).	Lot	0	
07-03-07191	-Central Network Management System software packages.	Lot	0	
07-03-07192	-Local Network Management Equipment (craft terminals & software kits).	Set	1	
07-03-07193	-Mediation , Interface, and connection cards & modules.	Lot	1	
07-03-07194	-Installation Materials & Tools.	Set	1	
07-03-07195	-Documentation..	Set	1	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-07199	Test Instruments	Lot	1	
07-03-07200	-Digital Multimeter.	Set	1	
07-03-07201	-Frequency Counter .	Set	1	
07-03-07202	-Power Meter .	Set	1	
07-03-07203	-PCM Multiplex Tester .	Set	1	
07-03-07204	-RF Sweep Generator .	Set	1	
07-03-07205	-VSWR Test Set.	Set	1	
07-03-07206	-Scalar Network Analyzer .	Set	1	
07-03-07207	-RF Spectrum Analyzer.	Set	1	
07-03-07208	-SDH Analyzer for STM-1.	Set	1	
07-03-07209	-TX / RX MW Link Analyzer .	Set	1	
07-03-07210	-PDH Analyzer (2Mb/s).	Set	1	
07-03-07211	-Oscilloscope 500 MHZ Dual channel.	Set	1	
07-03-07212	-Vedio Test Set.	Set	1	
07-03-07213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-07214	-Cables & Adapters.	Set	1	
07-03-07215	-Waveguide / Coax. Adapters.	Set	1	
07-03-07216	-Documentation.	Set	1	
07-03-07219	Specific Tools	Lot	1	
07-03-07220	-20 Ton Lorry with crane & winch.	Unit	1	
07-03-07221	-Specific Maintenance Tools Bag.	Unit	1	
07-03-07222	-Station Tools Bag.	Unit	1	
07-03-07223	-Special Tools for waveguide.	Unit	1	
07-03-07224	-Installation Tools.	Unit	1	
07-03-07229	Services	Lot	1	
07-03-07230	-Factory Training Abroad.	Trainee	3	
07-03-07231	-Training In Iraq.	Trainee	6	
07-03-07232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad - Basra and Kut-Nasriya

Site - Name :AMARA Ex.

Code	Item Description	Unit	Qty	Complemet ary Items
07-03-08100	SDH Microwave Radio Equipment	Lot	1	
07-03-08101	-STM-1 6GHZ, (3+1),& (1+1) &(1+2),11GHZ Radio	Set		
07-03-08102	Terminals With Frequency &Space Diversity all complete.			
07-03-08103	-128 QAM Modems Modules.	Set	9	
07-03-08104	-Protection Switch.	Set	3	
07-03-08105	-Engineering order wire channel.	Set	3	
07-03-08106	-2Mb/s auxiliary traffic.	Set	5	
07-03-08107	-Interface to central Network management.	Set	3	
07-03-08108	-Peripherals (Lap Top PC , etc.....)	Set	1	
07-03-08109	-Rack with 48V. d/c unit (duplicated).	Set	4	
07-03-08110	-Installation & Maintenance tools & materials.	Set	3	
07-03-08111	-Spare parts & spare units.	lot	1	
07-03-08112	-Documentation.	Set	2	
07-03-08119	Microwave Antennas	Lot	1	
07-03-08120	-Parabolic Dish (1.8m.-3.7m. diameter).	Set	5	
07-03-08121	-Antenna Radiation Element with (1 / 2 / 4)Ports.	Set	5	
07-03-08122	-Connector Flanges.	Set	10	
07-03-08123	-Tower Attachment.	Set	5	
07-03-08124	-Installation & Maintenance tools & materials.	Set	5	
07-03-08129	Microwave Feeders	Lot	1	
07-03-08130	-Elliptical waveguide for 13/11/6 GHZ band .	Meter	500	
07-03-08131	-Medium capacity dehydrator.	Unit	1	
07-03-08132	-Pressure Window.	Unit	5	
07-03-08133	-Fixture clamps.	Set	5	
07-03-08134	-Earthing Kits.	Set	5	
07-03-08135	-Installation materials & tools.	Set	5	
07-03-08136	-Documentation.	Set	1	
07-03-08139	DC Power Plant	Lot	1	
07-03-08140	-Modular switched rectifier system 48V / 30Ampere	Set		
07-03-08141	module (10+2) configuration.		1	
07-03-08142	-48V,1000Ah Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-08143	-Cabinet.	Set	1	
07-03-08144	-Installation materials , cables, tools.	Set	4	
07-03-08145	- Documentation.	Set	1	
07-03-08146			1	
07-03-08149	Air Conditioners	Lot	1	
07-03-08150	-Duplicated 18000 / 24000 BTU Unit.	Set	2	
07-03-08151	-Piping & installation materials & fixtures.	Set	2	
07-03-08152	-Spare parts.	Set	2	
07-03-08153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complemet ary Items
07-03-08159	Diesel Engine Generator	Lot	1	
07-03-08160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-08161	-Daily Fuel Tank.	Set	1	
07-03-08162	-Fan.	Set	1	
07-03-08163	-Piping.	Set	1	
07-03-08164	-Control cubicle & Alarms.	Set	1	
07-03-08165	-Installation Materials & Tools.	Set	1	
07-03-08166	-Spare parts & PCB's.	Set	1	
07-03-08167	-Documentation.	Set	1	
07-03-08169	SDH Multiplex Equipment	Lot	1	
07-03-08170	-STM-4 Mutlplexer Subrack with redundant common units	Set	4	
07-03-08171	-STM-1 Multiplex Subrack with redundant common units	Set	5	
07-03-08171	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	5	
07-03-08172	-Access & Connection Modules.	Set	5	
07-03-08173	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP containd in subracks with common units & with function units,controllers ,connectors, ETC.....	Lot	6	
07-03-08174	-Full Matrix (duplicated).	Unit	10	
07-03-08175	-Auxiliary /Engineering order wire.	Set	3	
07-03-08176	-Telephone Handset.	Lot	2	
07-03-08176	-Installation Materials & Tools.	Lot	2	
07-03-08177	-Racks with power supply unit (duplicated)and cable head.	Set	6	
07-03-08178	-Digital Distribution Frames for 300systems.	Set	1	
07-03-08179	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	16	
07-03-08180				
07-03-08181	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	2	
07-03-08182	-Spare parts & spare units.	Lot	3	
07-03-08182	-Installation materials & tools.	Lot	2	
07-03-08183	-Documentation.	Set	2	
07-03-08184				
07-03-08185				
07-03-08189	Network Management Equipment	Lot	1	
07-03-08190	-Central Network Management System platform(Hardware)	Lot	1	
07-03-08191	-Central Network Management System software packages.	Set	1	
07-03-08191	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-08192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-08193	-Installation Materials & Tools.	Set	1	
07-03-08194	-Documentation..			
07-03-08195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-08119	Test Instruments	Lot	1	
07-03-08200	-Digital Multimeter.	Set	2	
07-03-08201	-Frequency Counter .	Set	1	
07-03-08202	-Power Meter .	Set	1	
07-03-08203	-PCM Multiplex Tester .	Set	1	
07-03-08204	-RF Sweep Generator .	Set	0	
07-03-08205	-VSWR Test Set.	Set	1	
07-03-08206	-Scalar Network Analyzer .	Set	0	
07-03-08207	-RF Spectrum Analyzer.	Set	1	
07-03-08208	-SDH Analyzer for STM-1.	Set	1	
07-03-08209	-TX / RX MW Link Analyzer .	Set	1	
07-03-08210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-08211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-08212	-Vedio Test Set.	Set	1	
07-03-08213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-08214	-Cables & Adapters.	Set	1	
07-03-08215	-Waveguide / Coax. Adapters.	Set	1	
07-03-08216	-Documentation.	Set	1	
07-03-08219	Specific Tools	Lot	1	
07-03-08220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-08221	-Specific Maintenance Tools	Lot	1	
07-03-08222	-Station Tools	Lot	1	
07-03-08223	-Special Tools for waveguide.	Lot	1	
07-03-08224	-Installation Tools.	Lot	1	
07-03-08229	Services	Lot	1	
07-03-08230	-Factory Training Abroad.	Trainee	4	
07-03-08231	-Training In Iraq.	Trainee	8	
07-03-08232	-Supervision Services (Supplier Expert).	Expert	2	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad - Basra and Kut-Nasriya

Site - Name : KUT Ex.

Code	Item Description	Unit	Qty	Complemetary Items
07-03-09100	SDH Microwave Radio Equipment	Lot	1	
07-03-09101	-STM-1 6GHZ, (3+1),& (1+1) &(1+2),11GHZ Radio Terminals With Frequency &Space Diversity all complete.	Set		
	-128 QAM Modems Modules.	Set	9	
07-03-09102	-Protection Switch.	Set	3	
07-03-09103	-Engineering order wire channel.	Set	3	
07-03-09104	-2Mb/s auxiliary traffic.	Set	5	
07-03-09105	-Interface to central Network management.	Set	3	
07-03-09106	-Peripherals (Lap Top PC , etc.....)	Set	1	
07-03-09107	-Rack with 48V. d/c unit (duplicated).	Set	4	
07-03-09108	-Installation & Maintenance tools & materials.	Set	3	
07-03-09109	-Spare parts & spare units.	lot	1	
07-03-09110	-Documentation.	Set	2	
07-03-09111				
07-03-09119	Microwave Antennas	Lot	1	
07-03-09120	-Parabolic Dish (1.8m.-3.7m. diameter).	Set	5	
07-03-09121	-Antenna Radiation Element with (1 / 2 / 4)Ports.	Set	5	
07-03-09122	-Connector Flanges.	Set	10	
07-03-09123	-Tower Attachment.	Set	5	
07-03-09124	-Installation & Maintenance tools & materials.	Set	5	
07-03-09129	Microwave Feeders	Lot	1	
07-03-09130	-Elliptical waveguide for 13/11/6 GHZ band .	Meter	500	
07-03-09131	-Medium capacity dehydrator.	Unit	1	
07-03-09132	-Pressure Window.	Unit	5	
07-03-09133	-Fixture clamps.	Set	5	
07-03-09134	-Earthing Kits.	Set	5	
07-03-09135	-Installation materials & tools.	Set	5	
07-03-09136	-Documentation.	Set	1	
07-03-09139	DC Power Plant	Lot	1	
07-03-09140	-Modular switched rectifier system 48V / 30Ampere module (10+2) configuration.	Set	1	
07-03-09141	-48V,1000Ah Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-09142	-Cabinet.	Set	1	
07-03-09143	-Installation materials , cables, tools.	Set	4	
07-03-09144	- Documentation.	Set	1	
			1	
07-03-09149	Air Conditioners	Lot	1	
07-03-09150	-Duplicated 18000 / 24000 BTU Unit.	Set	2	
07-03-09151	-Piping & installation materials & fixtures.	Set	2	
07-03-09152	-Spare parts.	Set	2	
07-03-09153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-09159	Diesel Engine Generator	Lot	1	
07-03-09160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-09161	-Daily Fuel Tank.	Set	1	
07-03-09162	-Fan.	Set	1	
07-03-09163	-Piping.	Set	1	
07-03-09164	-Control cubicle & Alarms.	Set	1	
07-03-09165	-Installation Materials & Tools.	Set	1	
07-03-09166	-Spare parts & PCB's.	Set	1	
07-03-09167	-Documentation.	Set	1	
07-03-09169	SDH Multiplex Equipment	Lot	1	
07-03-09170	-STM-4 Mutlplexer Subrack with redundant common units	Set	4	
07-03-09171	-STM-1 Multiplex Subrack with redundant common units	Set	5	
07-03-09171	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	5	
07-03-09172	-Access & Connection Modules.	Set	5	
07-03-09173	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP	Lot	6	
07-03-09174	containd in subracks with common units & with function units,controllers ,connectors, ETC.....			
07-03-09175	-Full Matrix (duplicated).	Unit	10	
07-03-09176	-Auxiliary /Engineering order wire.	Set	3	
07-03-09176	-Telephone Handset.	Lot	2	
07-03-09177	-Installation Materials & Tools.	Lot	2	
07-03-09178	-Racks with power supply unit (duplicated)and cable head.	Set	6	
07-03-09178	-Digital Distribution Frames for 300systems.	Set	1	
07-03-09179	-Primary Multiplex (PCM-30CH.) Subrack with	Set	16	
07-03-09180	common units & channel PCB's of different			
07-03-09181	configurations.			
07-03-09182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	2	
07-03-09182	-Spare parts & spare units.	Lot	3	
07-03-09183	-Installation materials & tools.	Lot	2	
07-03-09184	-Documentation.	Set	2	
07-03-09185				
07-03-09189	Network Management Equipment	Lot	1	
07-03-09190	-Central Network Management System platform(Hard ware)	Lot	1	
07-03-09191	-Central Network Management System software packages.	Set	1	
07-03-09191	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-09192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-09193	-Installation Materials & Tools.	Set	1	
07-03-09194	-Documentation..			
07-03-09195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-09119	Test Instruments	Lot	1	
07-03-09200	-Digital Multimeter.	Set	2	
07-03-09201	-Frequency Counter .	Set	1	
07-03-09202	-Power Meter .	Set	1	
07-03-09203	-PCM Multiplex Tester .	Set	1	
07-03-09204	-RF Sweep Generator .	Set	0	
07-03-09205	-VSWR Test Set.	Set	1	
07-03-09206	-Scalar Network Analyzer .	Set	0	
07-03-09207	-RF Spectrum Analyzer.	Set	1	
07-03-09208	-SDH Analyzer for STM-1.	Set	1	
07-03-09209	-TX / RX MW Link Analyzer .	Set	1	
07-03-09210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-09211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-09212	-Vedio Test Set.	Set	1	
07-03-09213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-09214	-Cables & Adapters.	Set	1	
07-03-09215	-Waveguide / Coax. Adapters.	Set	1	
07-03-09216	-Documentation.	Set	1	
07-03-09219	Specific Tools	Lot	1	
07-03-09220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-09221	-Specific Maintenance Tools	Lot	1	
07-03-09222	-Station Tools	Lot	1	
07-03-09223	-Special Tools for waveguide.	Lot	1	
07-03-09224	-Installation Tools.	Lot	1	
07-03-09229	Services	Lot	1	
07-03-09230	-Factory Training Abroad.	Trainee	4	
07-03-09231	-Training In Iraq.	Trainee	8	
07-03-09232	-Supervision Services (Supplier Expert).	Expert	2	

ANNEX SEVEN / Telecommunications
Sub - South Digital Microwave Link Baghdad-Basra and Kut-Nasriya
Site - Name :SWAIRA.

Code	Item Description	Unit	Qty	Complementary Items
07-03-10100	SDH Microwave Radio Equipment	Lot	1	
07-03-10101	-STM-1,13/11/6GHZ (3+1),(1+1) Radio Terminal. With Frequency & Space Diversity all complete.	Set	3	
07-03-10102	-128 QAM Modems Modules.	Set	10	
07-03-10103	-Protection Switch.	Set	3	
07-03-10104	-Engineering order wire channel.	Set	3	
07-03-10105	-2Mb/s auxiliary traffic.	Set	3	
07-03-10106	-Interface to central Network management.	Set	3	
07-03-10107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-10108	-Rack with 48V. d/c unit (duplicated).	Set	5	
07-03-10109	-Installation & Maintenance tools & materials.	Set	2	
07-03-10110	-Spare parts & spare units.	Set	2	
07-03-10111	-Documentation.	Set	1	
07-03-10119	Microwave Antennas	Lot	1	
07-03-10120	-Parabolic Dish (1.8m.-3.0m. diameter).	Set	5	
07-03-10121	-Antenna Radiation Element with (1 / 2)Ports.	Set	5	
07-03-10122	-Connector Flanges.	Set	5	
07-03-10123	-Tower Attachment.	Set	5	
07-03-10124	-Installation & Maintenance tools & materials.	Set	5	
07-03-10129	Microwave Feeders	Lot	1	
07-03-10130	-Elliptical waveguide for 13/11/6 GHZ band .	Meter	500	
07-03-10131	-Medium capacity dehydrator.	Unit	1	
07-03-10132	-Pressure Window.	Unit	12	
07-03-10133	-Fixture clamps.	Set	12	
07-03-10134	-Earthing Kits.	Set	12	
07-03-10135	-Installation materials & tools.	Set	2	
07-03-10136	-Documentation.	Set	1	
07-03-10139	DC Power Plant	Lot	1	
07-03-10140	-Modular switched rectifier system 48V / 30Ampere module (3+1) configuration.	Set	1	
07-03-10141	-48V, 300Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-03-10142	-Cabinet.	Set	1	
07-03-10143	-Installation materials , cables, tools.	Set	2	
07-03-10144	-Documentation.	Set	1	
07-03-10149	Air Conditioners	Lot	1	
07-03-10150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-10151	-Piping & installation materials & fixtures.	Set	2	
07-03-10152	-Spare parts.	Set	2	
07-03-10153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-10159	Diesel Engine Generator	Lot	1	
07-03-10160	-Capacity 50 KVA, Dual Set.	Set		
07-03-10161	-Daily Fuel Tank.	Set	1	
07-03-10162	-Fan.	Set	1	
07-03-10163	-Piping.	Set	1	
07-03-10164	-Control cubicle & Alarms.	Set	1	
07-03-10165	-Installation Materials & Tools.	Set	1	
07-03-10166	-Spare parts & PCB's.	Set	1	
07-03-10167	-Documentation.	Set	1	
			1	
07-03-10169	SDH Multiplex Equipment	Lot	1	
07-03-10170	-STM-4 Mutliplexer Subrack with redundant common units	Set	1	
07-03-10171	-STM-1 Multiplex Subrack with redundant common units	Set		
07-03-10172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	1	
			2	
07-03-10173	-Access & Connection Modules.	Set		
07-03-10174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	3	
			1	
07-03-10175	-Full Matrix (duplicated).	Unit		
07-03-10176	-Auxiliary /Engineering order wire.	Set	2	
07-03-10177	-Telephone Handset.	Set	1	
07-03-10178	-Installation Materials & Tools.	Lot	2	
07-03-10179	-Racks with power supply unit (duplicated)and cable head.	Set	2	
07-03-10180	-Digital Distribution Frames.	Set	4	
07-03-10181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	4	
			2	
07-03-10182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	1	
07-03-10183	-Spare parts & spare units.	Lot		
07-03-10184	-Installation materials & tools.	Lot	1	
07-03-10185	-Documentation.	Set	1	
			1	
07-03-10189	Network Management Equipment	Lot	1	
07-03-10190	-Central Network Management System platform(Hard ware)	Lot	0	
	-Central Network Management System software packages.	Set	0	
07-03-10191	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-10192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-10193	-Installation Materials & Tools.	Lot	1	
07-03-10194	-Documentation..	Set	1	
07-03-10195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-10119	Test Instruments	Lot	1	
07-03-10200	-Digital Multimeter.	Set	1	
07-03-10201	-Frequency Counter .	Set	0	
07-03-10202	-Power Meter .	Set	0	
07-03-10203	-PCM Multiplex Tester .	Set	1	
07-03-10204	-RF Sweep Generator .	Set	0	
07-03-10205	-VSWR Test Set.	Set	0	
07-03-10206	-Scalar Network Analyzer .	Set	0	
07-03-10207	-RF Spectrum Analyzer.	Set	0	
07-03-10208	-SDH Analyzer for STM-1.	Set	0	
07-03-10209	-TX / RX MW Link Analyzer .	Set	0	
07-03-10210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-10211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-10212	-Vedio Test Set.	Set	0	
07-03-10213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	0	
07-03-10214	-Cables & Adapters.	Set	1	
07-03-10215	-Waveguide / Coax. Adapters.	Set	0	
07-03-10216	-Documentation.	Set	1	
07-03-10219	Specific Tools	Lot	1	
07-03-10220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-10221	-Specific Maintenance Tools	Lot	1	
07-03-10222	-Station Tools	Lot	1	
07-03-10223	-Special Tools for waveguide.	Lot	1	
07-03-10224	-Installation Tools.	Lot	1	
07-03-10229	Services	Lot	1	
07-03-10230	-Factory Training Abroad.	Trainee	1	
07-03-10231	-Training In Iraq.	Trainee	3	
07-03-10232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra- and Kut-Nasriya

Site - Name : AZIZIYA

Code	Item Description	Unit	Qty	Complemet ary Items
07-03-11100	SDH Microwave Radio Equipment	Lot	1	
07-03-11101	-STM-1, 6GHZ (3+1), Radio Terminal With Frequency & Space Diversity all complete.	Set	2	
07-03-11102	-128 QAM Modems Modules.	Set	8	
07-03-11103	-Protection Switch.	Set	2	
07-03-11104	-Engineering order wire channel.	Set	1	
07-03-11105	-2Mb/s auxiliary traffic.	Set	3	
07-03-11106	-Interface to central Network management.	Set	2	
07-03-11107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-11108	-Rack with 48V. d/c unit (duplicated).	Set	3	
07-03-11109	-Installation & Maintenance tools & materials.	Set	2	
07-03-11110	-Spare parts & spare units.	Set	2	
07-03-11111	-Documentation.	Set	1	
07-03-11119	Microwave Antennas	Lot	1	
07-03-11120	-Parabolic Dish (2.4- 3) m. diameter .	Set	4	
07-03-11121	-Antenna Radiation Element with (1 / 2)Ports.	Set	4	
07-03-11122	-Connector Flanges.	Set	4	
07-03-11123	-Tower Attachment.	Set	4	
07-03-11124	-Installation & Maintenance tools & materials.	Set	4	
07-03-11129	Microwave Feeders	Lot	1	
07-03-11130	-Elliptical waveguide for 8/6 GHZ band .	Meter	400	
07-03-11131	-Medium capacity dehydrator.	Unit	1	
07-03-11132	-Pressure Window.	Unit	8	
07-03-11133	-Fixture clamps.	Set	4	
07-03-11134	-Earthing Kits.	Set	4	
07-03-11135	-Installation materials & tools.	Set	2	
07-03-11136	-Documentation.	Set	1	
07-03-11139	DC Power Plant	Lot	1	
07-03-11140	-Modular switched rectifier system 48V / 30Ampere module (3+1) configuration.	Set	1	
07-03-11141	-48V, 250Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-03-11142	-Cabinet.	Set	1	
07-03-11143	-Installation materials , cables, tools.	Set	2	
07-03-11144	-Documentation.	Set	1	
07-03-11149	Air Conditioners	Lot	1	
07-03-11150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-11151	-Piping & installation materials & fixtures.	Set	2	
07-03-11152	-Spare parts.	Set	2	
07-03-11153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-11159	Diesel Engine Generator	Lot	1	
07-03-11160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-11161	-Daily Fuel Tank.	Set	1	
07-03-11162	-Fan.	Set	1	
07-03-11163	-Piping.	Set	1	
07-03-11164	-Control cubicle & Alarms.	Set	1	
07-03-11165	-Installation Materials & Tools.	Set	1	
07-03-11166	-Spare parts & PCB's.	Set	1	
07-03-11167	-Documentation.	Set	1	
07-03-11169	SDH Multiplex Equipment	Lot	1	
07-03-11170	-STM-4 Mutlplexer Subrack with redundant common units	Set	1	
07-03-11171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-11172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	3	
07-03-11173	-Access & Connection Modules.	Set	2	
07-03-11174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units,controllers ,connectors, ETC.....	Lot	1	
	-Full Matrix (duplicated).	Unit	4	
07-03-11175	-Auxiliary /Engineering order wire.	Set	1	
07-03-11176	-Telephone Handset.	Set	1	
07-03-11177	-Installation Materials & Tools.	Lot	2	
07-03-11178	-Racks with power supply unit (duplicated)and cable head.	Set	4	
07-03-11179	-Digital Distribution Frames.	Set	4	
	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	2	
07-03-11180	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	1	
07-03-11181	-Spare parts & spare units.	Lot	1	
07-03-11182	-Installation materials & tools.	Lot	1	
	-Documentation.	Set	1	
07-03-11183				
07-03-11184				
07-03-11185				
07-03-11189	Network Management Equipment	Lot	1	
07-03-11190	-Central Network Management System platform(Hardware)	Lot	0	
		Set	0	
07-03-11191	-Central Network Management System software packages.	Lot	1	
	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-11192	-Mediation , Interface, and connection cards &modules.	Lot	1	
	-Installation Materials & Tools.	Set	1	
07-03-11193	-Documentation..			
07-03-11194				
07-03-11195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-11119	Test Instruments	Lot	1	
07-03-11200	-Digital Multimeter.	Set	1	
07-03-11201	-Frequency Counter .	Set	1	
07-03-11202	-Power Meter .	Set	1	
07-03-11203	-PCM Multiplex Tester .	Set	1	
07-03-11204	-RF Sweep Generator .	Set	0	
07-03-11205	-VSWR Test Set.	Set	0	
07-03-11206	-Scalar Network Analyzer .	Set	0	
07-03-11207	-RF Spectrum Analyzer.	Set	0	
07-03-11208	-SDH Analyzer for STM-1.	Set	0	
07-03-11209	-TX / RX MW Link Analyzer .	Set	0	
07-03-11210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-11211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-11212	-Vedio Test Set.	Set	0	
07-03-11213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-11214	-Cables & Adapters.	Set	1	
07-03-11215	-Waveguide / Coax. Adapters.	Set	1	
07-03-11216	-Documentation.	Set	1	
07-03-11219	Specific Tools	Lot	1	
07-03-11220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-11221	-Specific Maintenance Tools	Lot	1	
07-03-11222	-Station Tools	Lot	1	
07-03-11223	-Special Tools for waveguide.	Lot	1	
07-03-11224	-Installation Tools.	Lot	1	
07-03-11229	Services	Lot	1	
07-03-11230	-Factory Training Abroad.	Trainee	2	
07-03-11231	-Training In Iraq.	Trainee	4	
07-03-11232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications
Sub - sector :South Digital Microwave Link Baghdad-Basra- and Kut-Nasriya
Site - Name : DIBUNI

Code	Item Description	Unit	Qty	Complementary Items
07-03-12100	SDH Microwave Radio Equipment	Lot	1	
07-03-12101	-STM-1, 6GHZ (3+1), (1+1) Radio Terminal.	Set	2	
07-03-12102	With Frequency & Space Diversity all complete.			
07-03-12102	-128 QAM Modems Modules.	Set	8	
07-03-12103	-Protection Switch.	Set	2	
07-03-12104	-Engineering order wire channel.	Set	2	
07-03-12105	-2Mb/s auxiliary traffic.	Set	3	
07-03-12106	-Interface to central Network management.	Set	2	
07-03-12107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-12108	-Rack with 48V. d/c unit (duplicated).	Set	4	
07-03-12109	-Installation & Maintenance tools & materials.	Set	2	
07-03-12110	-Spare parts & spare units.	Set	2	
07-03-12111	-Documentation.	Set	1	
07-03-12119	Microwave Antennas	Lot	1	
07-03-12120	-Parabolic Dish (2.4-3.0m diameter).	Set	4	
07-03-12121	-Antenna Radiation Element with (1 / 2)Ports.	Set	4	
07-03-12122	-Connector Flanges.	Set	4	
07-03-12123	-Tower Attachment.	Set	4	
07-03-12124	-Installation & Maintenance tools & materials.	Set	4	
07-03-12129	Microwave Feeders	Lot	1	
07-03-12130	-Elliptical waveguide for 8/6 GHZ band .	Meter	400	
07-03-12131	-Medium capacity dehydrator.	Unit	1	
07-03-12132	-Pressure Window.	Unit	5	
07-03-12133	-Fixture clamps.	Set		
07-03-12134	-Earthing Kits.	Set	5	
07-03-12135	-Installation materials & tools.	Set	5	
07-03-12136	-Documentation.	Set	2	
			1	
07-03-12139	DC Power Plant	Lot	1	
07-03-12140	-Modular switched rectifier system 48V / 30Ampere	Set		
	module (2+1) configuration.		1	
07-03-12141	-48V, 300Ah Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-12142	-Cabinet.	Set	1	
07-03-12143	-Installation materials , cables, tools.	Set	2	
07-03-12144	-Documentation.	Set	1	
			1	
07-03-12149	Air Conditioners	Lot	1	
07-03-12150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-12151	-Piping & installation materials & fixtures.	Set	2	
07-03-12152	-Spare parts.	Set	2	
07-03-12153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-12159	Diesel Engine Generator	Lot	1	
07-03-12160	-Capacity 50 KVA, Dual Set.	Set		
07-03-12161	-Daily Fuel Tank.	Set	1	
07-03-12162	-Fan.	Set	1	
07-03-12163	-Piping.	Set	1	
07-03-12164	-Control cubicle & Alarms.	Set	1	
07-03-12165	-Installation Materials & Tools.	Set	1	
07-03-12166	-Spare parts & PCB's.	Set	1	
07-03-12167	-Documentation.	Set	1	
			1	
07-03-12169	SDH Multiplex Equipment	Lot	1	
07-03-12170	-STM-4 Multiplexer Subrack with redundant common units	Set	2	
07-03-12171	-STM-1 Multiplex Subrack with redundant common units	Set		
07-03-12172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	1	
			3	
07-03-12173	-Access & Connection Modules.	Set		
07-03-12174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	2	
			6	
07-03-12175	-Full Matrix (duplicated).	Unit		
07-03-12176	-Auxiliary /Engineering order wire.	Set	4	
07-03-12177	-Telephone Handset.	Lot	1	
07-03-12178	-Installation Materials & Tools.	Lot	1	
07-03-12179	-Racks with power supply unit (duplicated)and cable head.	Set	2	
07-03-12180	-Digital Distribution Frames.	Set	4	
07-03-12181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	4	
			1	
07-03-12182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	2	
07-03-12183	-Spare parts & spare units.	Lot		
07-03-12184	-Installation materials & tools.	Lot	2	
07-03-12185	-Documentation.	Set	2	
			1	
07-03-12189	Network Management Equipment	Lot	1	
07-03-12190	-Central Network Management System platform(Hard ware)	Lot	0	
	-Central Network Management System software packages.	Set	0	
07-03-12191	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-12192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-12193	-Installation Materials & Tools.	Lot	1	
07-03-12194	-Documentation..	Set	1	
07-03-12195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-12119	Test Instruments	Lot	1	
07-03-12200	-Digital Multimeter.	Set	1	
07-03-12201	-Frequency Counter .	Set	0	
07-03-12202	-Power Meter .	Set	0	
07-03-12203	-PCM Multiplex Tester .	Set	1	
07-03-12204	-RF Sweep Generator .	Set	0	
07-03-12205	-VSWR Test Set.	Set	0	
07-03-12206	-Scalar Network Analyzer .	Set	0	
07-03-12207	-RF Spectrum Analyzer.	Set	0	
07-03-12208	-SDH Analyzer for STM-1.	Set	0	
07-03-12209	-TX / RX MW Link Analyzer .	Set	0	
07-03-12210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-12211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-12212	-Vedio Test Set.	Set	0	
07-03-12213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	0	
07-03-12214	-Cables & Adapters.	Set	1	
07-03-12215	-Waveguide / Coax. Adapters.	Set	1	
07-03-12216	-Documentation.	Set	1	
07-03-12219	Specific Tools	Lot	1	
07-03-12220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-12221	-Specific Maintenance Tools	Lot	1	
07-03-12222	-Station Tools	Lot	1	
07-03-12223	-Special Tools for waveguide.	Lot	1	
07-03-12224	-Installation Tools.	Lot	1	
07-03-12229	Services	Lot	1	
07-03-12230	-Factory Training Abroad.	Trainee	1	
07-03-12231	-Training In Iraq.	Trainee	3	
07-03-12232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra- and Kut-Nasriya

Site - Name : Numaniya

Code	Item Description	Unit	Qty	Complementary Items
07-03-13100	SDH Microwave Radio Equipment	Lot	1	
07-03-13101	-STM-1, 6GHZ (3+1)&(1+1),11GHZ, Radio Terminal	Set	2	
07-03-13102	With Frequency & Space Diversity all complete.			
07-03-13103	-128 QAM Modems Modules.	Set	10	
07-03-13104	-Protection Switch.	Set	3	
07-03-13105	-Engineering order wire channel.	Set	2	
07-03-13106	-2Mb/s auxiliary traffic.	Set	2	
07-03-13107	-Interface to central Network management.	Set	2	
07-03-13108	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-13109	-Rack with 48V. d/c unit (duplicated).	Set	3	
07-03-13110	-Installation & Maintenance tools & materials.	lot	1	
07-03-13111	-Spare parts & spare units.	lot	1	
07-03-13112	-Documentation.	Set	1	
07-03-13119	Microwave Antennas	Lot	1	
07-03-13120	-Parabolic Dish (3 -3.7m. diameter).	Set	4	
07-03-13121	-Antenna Radiation Element with (1 / 2)Ports.	Set	4	
07-03-13122	-Connector Flanges.	Set	4	
07-03-13123	-Tower Attachment.	Set	4	
07-03-13124	-Installation & Maintenance tools & materials.	Set	4	
07-03-13129	Microwave Feeders	Lot	1	
07-03-13130	-Elliptical waveguide for 11&6 GHZ band .	Meter	500	
07-03-13131	-Medium capacity dehydrator.	Unit	1	
07-03-13132	-Pressure Window.	Unit	5	
07-03-13133	-Fixture clamps.	Set	5	
07-03-13134	-Earthing Kits.	Set	5	
07-03-13135	-Installation materials & tools.	Set	5	
07-03-13136	-Documentation.	Set	1	
07-03-13139	DC Power Plant	Lot	1	
07-03-13140	-Modular switched rectifier system 48V / 30Ampere	Set		
07-03-13141	module (3+1) configuration.		1	
07-03-13142	-48V, 300Ah Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-13143	-Cabinet.	Set	1	
07-03-13144	-Installation materials , cables, tools.	Set	2	
07-03-13145	-Documentation.	Set	1	
07-03-13146			1	
07-03-13149	Air Conditioners	Lot	1	
07-03-13150	-Duplicated 18000 / 24000 BTU Unit.	Set	2	
07-03-13151	-Piping & installation materials & fixtures.	Set	2	
07-03-13152	-Spare parts.	Set	2	
07-03-13153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-13159	Diesel Engine Generator	Lot	1	
07-03-13160	-Capacity 50 KVA, Dual Set.	Set		
07-03-13161	-Daily Fuel Tank.	Set	1	
07-03-13162	-Fan.	Set	1	
07-03-13163	-Piping.	Set	1	
07-03-13164	-Control cubicle & Alarms.	Set	1	
07-03-13165	-Installation Materials & Tools.	Set	1	
07-03-13166	-Spare parts & PCB's.	Set	1	
07-03-13167	-Documentation.	Set	1	
			1	
07-03-13169	SDH Multiplex Equipment	Lot	1	
07-03-13170	-STM-4 Mutliplexer Subrack with redundant common units	Set	1	
07-03-13171	-STM-1 Multiplex Subrack with redundant common units	Set		
07-03-13172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	1	
			4	
07-03-13173	-Access & Connection Modules.	Set		
07-03-13174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	3	
			1	
07-03-13175	-Full Matrix (duplicated).	Unit		
07-03-13176	-Auxiliary /Engineering order wire.	Set	3	
07-03-13177	-Telephone Handset.	Lot	1	
07-03-13178	-Installation Materials & Tools.	Lot	1	
07-03-13179	-Racks with power supply unit (duplicated)and cable head.	Set	1	
07-03-13180	-Digital Distribution Frames.	Set	4	
07-03-13181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	4	
			3	
07-03-13182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	1	
07-03-13183	-Spare parts & spare units.	Lot		
07-03-13184	-Installation materials & tools.	Lot	1	
07-03-13185	-Documentation.	Set	1	
			1	
07-03-13189	Network Management Equipment	Lot	1	
07-03-13190	-Central Network Management System platform(Hard ware)	Lot	0	
	-Central Network Management System software packages.	Set	0	
07-03-13191	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-13192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-13193	-Installation Materials & Tools.	Lot	1	
07-03-13194	-Documentation..	Set	1	
07-03-13195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-13119	Test Instruments	Lot	1	
07-03-13200	-Digital Multimeter.	Set	1	
07-03-13201	-Frequency Counter .	Set	0	
07-03-13202	-Power Meter .	Set	0	
07-03-13203	-PCM Multiplex Tester .	Set	1	
07-03-13204	-RF Sweep Generator .	Set	0	
07-03-13205	-VSWR Test Set.	Set	0	
07-03-13206	-Scalar Network Analyzer .	Set	0	
07-03-13207	-RF Spectrum Analyzer.	Set	0	
07-03-13208	-SDH Analyzer for STM-1.	Set	0	
07-03-13209	-TX / RX MW Link Analyzer .	Set	0	
07-03-13210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-13211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-13212	-Vedio Test Set.	Set	0	
07-03-13213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	0	
07-03-13214	-Cables & Adapters.	Set	1	
07-03-13215	-Waveguide / Coax. Adapters.	Set	1	
07-03-13216	-Documentation.	Set	1	
07-03-13219	Specific Tools	Lot	1	
07-03-13220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-13221	-Specific Maintenance Tools	Lot	1	
07-03-13222	-Station Tools	Lot	1	
07-03-13223	-Special Tools for waveguide.	Lot	1	
07-03-13224	-Installation Tools.	Lot	1	
07-03-13229	Services	Lot	1	
07-03-13230	-Factory Training Abroad.	Trainee	1	
07-03-13231	-Training In Iraq.	Trainee	3	
07-03-13232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra- and Kut-Nasirya

Site - Name : QALAT SALIH

Code	Item Description	Unit	Qty	Complemetary Items
07-03-14100	SDH Microwave Radio Equipment	Lot	1	
07-03-14101	-STM-1, 6 GHZ (3+1) RadioTerminal With Frequency & Space Diversity all complete.	Set	2	
07-03-14102	-128 QAM Modems Modules.	Set	8	
07-03-14103	-Protection Switch.	Set	2	
07-03-14104	-Engineering order wire channel.	Set	2	
07-03-14105	-2Mb/s auxiliary traffic.	Set	3	
07-03-14106	-Interface to central Network management.	Set	2	
07-03-14107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-14108	-Rack with 48V. d/c unit (duplicated).	Set	3	
07-03-14109	-Installation & Maintenance tools & materials.	lot	1	
07-03-14110	-Spare parts & spare units.	lot	1	
07-03-14111	-Documentation.	Set	1	
07-03-14119	Microwave Antennas	Lot	1	
07-03-14120	-Parabolic Dish (3 -3.7m. diameter).	Set	4	
07-03-14121	-Antenna Radiation Element with (1 / 2)Ports.	Set	4	
07-03-14122	-Connector Flanges.	Set	4	
07-03-14123	-Tower Attachment.	Set	4	
07-03-14124	-Installation & Maintenance tools & materials.	Set	4	
07-03-14129	Microwave Feeders	Lot	1	
07-03-14130	-Elliptical waveguide for 8/6 GHZ band .	Meter	400	
07-03-14131	-Medium capacity dehydrator.	Unit	1	
07-03-14132	-Pressure Window.	Unit	4	
07-03-14133	-Fixture clamps.	Set	4	
07-03-14134	-Earthing Kits.	Set	4	
07-03-14135	-Installation materials & tools.	Set	4	
07-03-14136	-Documentation.	Set	1	
07-03-14139	DC Power Plant	Lot	1	
07-03-14140	-Modular switched rectifier system 48V / 30Ampere module (3+1) configuration.	Set	1	
07-03-14141	-48V, 200Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-03-14142	-Cabinet.	Set	1	
07-03-14143	-Installation materials , cables, tools.	Set	2	
07-03-14144	-Documentation.	Set	1	
07-03-14149	Air Conditioners	Lot	1	
07-03-14150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-14151	-Piping & installation materials & fixtures.	Set	2	
07-03-14152	-Spare parts.	Set	2	
07-03-14153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complemetary Items
07-03-14159	Diesel Engine Generator	Lot	1	
07-03-14160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-14161	-Daily Fuel Tank.	Set	1	
07-03-14162	-Fan.	Set	1	
07-03-14163	-Piping.	Set	1	
07-03-14164	-Control cubicle & Alarms.	Set	1	
07-03-14165	-Installation Materials & Tools.	lot	1	
07-03-14166	-Spare parts & PCB's.	lot	1	
07-03-14167	-Documentation.	Set	1	
07-03-14169	SDH Multiplex Equipment	Lot	1	
07-03-14170	-STM-4 Mutlplexer Subrack with redundant common units	Set	1	
07-03-14171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-14171	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	1	
07-03-14172	-Access & Connection Modules.	Set	0	
07-03-14173	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP	Lot	0	
07-03-14174	containd in subracks with common units & with function units,controllers ,connectors, ETC.....			
	-Full Matrix (duplicated).	Unit	2	
07-03-14175	-Auxiliary /Engineering order wire.	Set	1	
07-03-14176	-Telephone Handset.	Lot	1	
07-03-14176	-Installation Materials & Tools.	Lot	1	
07-03-14177	-Racks with power supply unit (duplicated)and cable head.	Set	1	
07-03-14178	-Digital Distribution Frames.	Set	1	
07-03-14179	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	2	
07-03-14180	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	1	
07-03-14181	-Spare parts & spare units.	Lot	1	
07-03-14182	-Installation materials & tools.	Lot	1	
07-03-14183	-Documentation.	Set	1	
07-03-14184				
07-03-14185				
07-03-14189	Network Management Equipment	Lot	0	
07-03-14190	-Central Network Management System platform(Hard ware)	Lot	0	
		Set	0	
07-03-14191	-Central Network Management System software packages.	Lot	0	
07-03-14192	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-14192	-Mediation , Interface, and connection cards &modules.	Lot	1	
	-Installation Materials & Tools.	Set	1	
07-03-14193	-Documentation..			
07-03-14194				
07-03-14195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-14119	Test Instruments	Lot	0	
07-03-14200	-Digital Multimeter.	Set	1	
07-03-14201	-Frequency Counter .	Set	0	
07-03-14202	-Power Meter .	Set	0	
07-03-14203	-PCM Multiplex Tester .	Set	1	
07-03-14204	-RF Sweep Generator .	Set	0	
07-03-14205	-VSWR Test Set.	Set	0	
07-03-14206	-Scalar Network Analyzer .	Set	0	
07-03-14207	-RF Spectrum Analyzer.	Set	0	
07-03-14208	-SDH Analyzer for STM-1.	Set	0	
07-03-14209	-TX / RX MW Link Analyzer .	Set	0	
07-03-14210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-14211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-14212	-Vedio Test Set.	Set	0	
07-03-14213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	0	
07-03-14214	-Cables & Adapters.	Set	0	
07-03-14215	-Waveguide / Coax. Adapters.	Set	0	
07-03-14216	-Documentation.	Set	1	
07-03-14219	Specific Tools	Lot	0	
07-03-14220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-14221	-Specific Maintenance Tools	Lot	0	
07-03-14222	-Station Tools	Lot	1	
07-03-14223	-Special Tools for waveguide.	Lot	0	
07-03-14224	-Installation Tools.	Lot	0	
07-03-14229	Services	Lot	1	
07-03-14230	-Factory Training Abroad.	Trainee	1	
07-03-14231	-Training In Iraq.	Trainee	2	
07-03-14232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasirya

Site - Name : ALDIYR

Code	Item Description	Unit	Qty	Complementary Items
07-03-15100	SDH Microwave Radio Equipment	Lot	1	
07-03-15101	-STM-1, 6 GHZ (3+1)&(1+1),11GHZ Radio terminal With Frequency & Space Diversity all complete.	Set	3	
07-03-15102	-128 QAM Modems Modules.	Set	10	
07-03-15103	-Protection Switch.	Set	2	
07-03-15104	-Engineering order wire channel.	Set	2	
07-03-15105	-2Mb/s auxiliary traffic.	Set	3	
07-03-15106	-Interface to central Network management.	Set	2	
07-03-15107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-15108	-Rack with 48V. d/c unit (duplicated).	Set	3	
07-03-15109	-Installation & Maintenance tools & materials.	lot	1	
07-03-15110	-Spare parts & spare units.	lot	1	
07-03-15111	-Documentation.	Set	1	
07-03-15119	Microwave Antennas	Lot	1	
07-03-15120	-Parabolic Dish (2.4-3.7m. diameter).	Set	5	
07-03-15121	-Antenna Radiation Element with (1 / 2)Ports.	Set	5	
07-03-15122	-Connector Flanges.	Set	5	
07-03-15123	-Tower Attachment.	Set	5	
07-03-15124	-Installation & Maintenance tools & materials.	Set	5	
07-03-15129	Microwave Feeders	Lot	1	
07-03-15130	-Elliptical waveguide for 8/6 GHZ band .	Meter	400	
07-03-15131	-Medium capacity dehydrator.	Unit	1	
07-03-15132	-Pressure Window.	Unit	5	
07-03-15133	-Fixture clamps.	Set	5	
07-03-15134	-Earthing Kits.	Set	5	
07-03-15135	-Installation materials & tools.	Set	5	
07-03-15136	-Documentation.	Set	1	
07-03-15139	DC Power Plant	Lot	1	
07-03-15140	-Modular switched rectifier system 48V / 30Ampere module (3+1) configuration.	Set	1	
07-03-15141	-48V, 200Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-03-15142	-Cabinet.	Set	1	
07-03-15143	-Installation materials , cables, tools.	lot	2	
07-03-15144	-Documentation.	Set	1	
07-03-15149	Air Conditioners	Lot	1	
07-03-15150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-15151	-Piping & installation materials & fixtures.	Set	2	
07-03-15152	-Spare parts.	Set	2	
07-03-15153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-15159	Diesel Engine Generator	Lot	1	
07-03-15160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-15161	-Daily Fuel Tank.	Set	1	
07-03-15162	-Fan.	Set	1	
07-03-15163	-Piping.	Set	1	
07-03-15164	-Control cubicle & Alarms.	Set	1	
07-03-15165	-Installation Materials & Tools.	lot	1	
07-03-15166	-Spare parts & PCB's.	Set	1	
07-03-15167	-Documentation.	Set	1	
07-03-15169	SDH Multiplex Equipment	Lot	1	
07-03-15170	-STM-4 Mutliplexer Subrack with redundant common units	Set	1	
07-03-15171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-15172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	2	
07-03-15173	-Access & Connection Modules.	Set	3	
07-03-15174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	1	
07-03-15175	-Full Matrix (duplicated).	Unit	2	
07-03-15176	-Auxiliary /Engineering order wire.	Set	2	
07-03-15177	-Telephone Handset.	Lot	2	
07-03-15178	-Installation Materials & Tools.	Lot	1	
07-03-15179	-Racks with power supply unit (duplicated)and cable head.	Set	1	
07-03-15180	-Digital Distribution Frames.	Set	1	
07-03-15181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	2	
07-03-15182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	1	
07-03-15183	-Spare parts & spare units.	Lot	1	
07-03-15184	-Installation materials & tools.	Lot	1	
07-03-15185	-Documentation.	Set	1	
07-03-15189	Network Management Equipment	Lot	0	
07-03-15190	-Central Network Management System platform(Hard ware)	Lot	0	
	-Central Network Management System software packages.	Set	0	
07-03-15191	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-15192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-15193	-Installation Materials & Tools.	Lot	1	
07-03-15194	-Documentation..	Set	1	
07-03-15195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-15119	Test Instruments	Lot	0	
07-03-15200	-Digital Multimeter.	Set	1	
07-03-15201	-Frequency Counter .	Set	1	
07-03-15202	-Power Meter .	Set	1	
07-03-15203	-PCM Multiplex Tester .	Set	0	
07-03-15204	-RF Sweep Generator .	Set	0	
07-03-15205	-VSWR Test Set.	Set	0	
07-03-15206	-Scalar Network Analyzer .	Set	0	
07-03-15207	-RF Spectrum Analyzer.	Set	0	
07-03-15208	-SDH Analyzer for STM-1.	Set	0	
07-03-15209	-TX / RX MW Link Analyzer .	Set	0	
07-03-15210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-15211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-15212	-Vedio Test Set.	Set	0	
07-03-15213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-15214	-Cables & Adapters.	Set	1	
07-03-15215	-Waveguide / Coax. Adapters.	Set	1	
07-03-15216	-Documentation.	Set	1	
07-03-15219	Specific Tools	Lot	0	
07-03-15220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-15221	-Specific Maintenance Tools	Lot	0	
07-03-15222	-Station Tools	Lot	1	
07-03-15223	-Special Tools for waveguide.	Lot	0	
07-03-15224	-Installation Tools.	Lot	0	
07-03-15229	Services	Lot	1	
07-03-15230	-Factory Training Abroad.	Trainee	0	
07-03-15231	-Training In Iraq.	Trainee	0	
07-03-15232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name : ABUL GHASEEB

Code	Item Description	Unit	Qty	Complementary Items
07-03-16100	SDH Microwave Radio Equipment	Lot	1	
07-03-16101	-STM-1, 6 GHZ (1+1) Radio Terminal With Frequency & Space Diversity all complete.	Set	2	
07-03-16102	-128 QAM Modems Modules.	Set	4	
07-03-16103	-Protection Switch.	Set	1	
07-03-16104	-Engineering order wire channel.	Set	2	
07-03-16105	-2Mb/s auxiliary traffic.	Set	2	
07-03-16106	-Interface to central Network management.	Set	2	
07-03-16107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-16108	-Rack with 48V. d/c unit (duplicated).	Set	3	
07-03-16109	-Installation & Maintenance tools & materials.	Set	1	
07-03-16110	-Spare parts & spare units.	Set	1	
07-03-16111	-Documentation.	Set	1	
07-03-16112	-Galvanized steel self suboorted 70m high microwave Tower all complet with earthing, Painting ,lighting &fightning subsystem (concrete fowdatwns)	lot	1	
07-03-16119	Microwave Antennas	Lot	1	
07-03-16120	-Parabolic Dish (2.4-3.0m. diameter).	Set	4	
07-03-16121	-Antenna Radiation Element with (1 / 2)Ports.	Set	4	
07-03-16122	-Connector Flanges.	Set	4	
07-03-16123	-Tower Attachment.	Set	4	
07-03-16124	-Installation & Maintenance tools & materials	Set	4	
07-03-16129	Microwave Feeders	Lot	1	
07-03-16130	-Elliptical waveguide for 8/6 GHZ band .	Meter	400	
07-03-16131	-Medium capacity dehydrator.	Unit	1	
07-03-16132	-Pressure Window.	Unit	4	
07-03-16133	-Fixture clamps.	Set	4	
07-03-16134	-Earthing Kits.	Set	4	
07-03-16135	-Installation materials & tools.	Set	4	
07-03-16136	-Documentation.	Set	1	
07-03-16139	DC Power Plant	Lot	1	
07-03-16140	-Modular switched rectifier system 48V / 30Ampere module (2+1) configuration.	Set	1	
07-03-16141	-48V, 200Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-03-16142	-Cabinet.	Set	2	
07-03-16143	-Installation materials , cables, tools.	lot	1	
07-03-16144	-Documentation.	Set	1	
07-03-16149	Air Conditioners	Lot	1	
07-03-16150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-16151	-Piping & installation materials & fixtures.	Set	2	
07-03-16152	-Spare parts.	Set	2	
07-03-16153	-Documentation.	Set	2	

07-03-16159	Diesel Engine Generator	Lot	1	
07-03-16160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-16161	-Daily Fuel Tank.	Set	1	
07-03-16162	-Fan.	Set	1	
07-03-16163	-Piping.	Set	1	
07-03-16164	-Control cubicle & Alarms.	Set	1	
07-03-16165	-Installation Materials & Tools.	lot	1	
07-03-16166	-Spare parts & PCB's.	Set	1	
07-03-16167	-Documentation.	Set	1	
07-03-16169	SDH Multiplex Equipment	Lot	1	
07-03-16170	-STM-4 Mutliplexer Subrack with redundant common units	Set	0	
07-03-16171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-16172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	1	
07-03-16173	-Access & Connection Modules.	Set	0	
07-03-16174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	0	
07-03-16175	-Full Matrix (duplicated).	Unit	1	
07-03-16176	-Auxiliary /Engineering order wire.	Set	1	
07-03-16177	-Telephone Handset.	Lot	1	
07-03-16178	-Installation Materials & Tools.	Lot	1	
07-03-16179	-Racks with power supply unit (duplicated)and cable head.	Set	1	
07-03-16180	-Digital Distribution Frames.	Set	1	
07-03-16181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	2	
07-03-16182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	1	
07-03-16183	-Spare parts & spare units.	Lot	1	
07-03-16184	-Installation materials & tools.	Lot	1	
07-03-16185	-Documentation.	Set	1	
07-03-16189	Network Management Equipment	Lot	0	
07-03-16190	-Central Network Management System platform(Hard ware)	Lot	0	
	-Central Network Management System software packages.	Set	0	
07-03-16191	-Local Network Management Equipment (craft terminals).	Lot	0	
07-03-16192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-16193	-Installation Materials & Tools.	Lot	1	
07-03-16194	-Documentation..	Set	1	
07-03-16195				

07-03-16119	Test Instruments	Lot	0	
07-03-16200	-Digital Multimeter.	Set	1	
07-03-16201	-Frequency Counter .	Set	0	
07-03-16202	-Power Meter .	Set	1	
07-03-16203	-PCM Multiplex Tester .	Set	1	
07-03-16204	-RF Sweep Generator .	Set	0	
07-03-16205	-VSWR Test Set.	Set	0	
07-03-16206	-Scalar Network Analyzer .	Set	0	
07-03-16207	-RF Spectrum Analyzer.	Set	0	
07-03-16208	-SDH Analyzer for STM-1.	Set	0	
07-03-16209	-TX / RX MW Link Analyzer .	Set	0	
07-03-16210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-16211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-16212	-Vedio Test Set.	Set	0	
07-03-16213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-16214	-Cables & Adapters.	Set	1	
07-03-16215	-Waveguide / Coax. Adapters.	Set	1	
07-03-16216	-Documentation.	Set	1	
07-03-16219	Specific Tools	Lot	0	
07-03-16220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-16221	-Specific Maintenance Tools	Lot	0	
07-03-16222	-Station Tools	Lot	1	
07-03-16223	-Special Tools for waveguide.	Lot	0	
07-03-16224	-Installation Tools.	Lot	0	
07-03-16229	Services	Lot	1	
07-03-16230	-Factory Training Abroad.	Trainee	0	
07-03-16231	-Training In Iraq.	Trainee	0	
07-03-16232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name : Numaniya Ex.

Code	Item Description	Unit	Qty	Compleme tary Items
07-03-17100	SDH Microwave Radio Equipment	Lot	1	
07-03-17101	-STM-1,11GHZ (1+1) Radio terminal	Set	1	
07-03-17102	-128 QAM Modems Modules.			
07-03-17103	-Protection Switch.	Set	2	
07-03-17104	-Engineering order wire channel.	Set	1	
07-03-17105	-2Mb/s auxiliary traffic.	Set	1	
07-03-17106	-Interface to central Network management.	Set	1	
07-03-17107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-17108	-Rack with 48V. d/c unit (duplicated).	Set	1	
07-03-17109	-Installation & Maintenance tools & materials.	Set	2	
07-03-17110	-Spare parts & spare units.	lot	1	
07-03-17111	-Documentation.	lot	1	
		Set	1	
07-03-17119	Microwave Antennas	Lot	1	
07-03-17120	-Parabolic Dish (1.8-2.4m. diameter).	Set	1	
07-03-17121	-Antenna Radiation Element with (1 / 2)Ports.	Set	1	
07-03-17122	-Connector Flanges.	Set	1	
07-03-17123	-Tower Attachment.	Set	1	
07-03-17124	-Installation & Maintenance tools & materials.	Set	1	
07-03-17129	Microwave Feeders	Lot	1	
07-03-17130	-Elliptical waveguide for 11GHZ band .	Meter	100	
07-03-17131	-Medium capacity dehydrator.	Unit	1	
07-03-17132	-Pressure Window.	Unit	1	
07-03-17133	-Fixture clamps.	Set	1	
07-03-17134	-Earthing Kits.	Set	1	
07-03-17135	-Installation materials & tools.	lot	1	
07-03-17136	-Documentation.	Set	1	
07-03-17139	DC Power Plant	Lot	1	
07-03-17140	-Modular switched rectifier system 48V / 30Ampere	Set		
	module (2+1) configuration.		1	
07-03-17141	-48V, 200Ah Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-17142	-Cabinet.	Set	1	
07-03-17143	-Installation materials , cables, tools.	Set	2	
07-03-17144	-Documentation.	Set	1	
			1	
07-03-17149	Air Conditioners	Lot	1	
07-03-17150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-17151	-Piping & installation materials & fixtures.	Set	2	
07-03-17152	-Spare parts.	Set	2	
07-03-17153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-17159	Diesel Engine Generator	Lot	1	
07-03-17160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-17161	-Daily Fuel Tank.	Set	1	
07-03-17162	-Fan.	Set	1	
07-03-17163	-Piping.	Set	1	
07-03-17164	-Control cubicle & Alarms.	Set	1	
07-03-17165	-Installation Materials & Tools.	lot	1	
07-03-17166	-Spare parts & PCB's.	Set	1	
07-03-17167	-Documentation.	Set	1	
07-03-17169	SDH Multiplex Equipment	Lot	1	
07-03-17170	-STM-4 Multiplexer Subrack with redundant common units	Set	0	
07-03-17171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-17172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	1	
07-03-17173	-Access & Connection Modules.	Set	1	
07-03-17174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	1	
07-03-17175	-Full Matrix (duplicated).	Unit	1	
07-03-17176	-Auxiliary /Engineering order wire.	Set	1	
07-03-17177	-Telephone Handset.	Set	1	
07-03-17178	-Installation Materials & Tools.	Lot	0	
07-03-17179	-Racks with power supply unit (duplicated)and cable head.	Set	1	
07-03-17180	-Digital Distribution Frames.	Set	1	
07-03-17181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	2	
07-03-17182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	1	
07-03-17183	-Spare parts & spare units.	Lot	1	
07-03-17184	-Installation materials & tools.	Lot	1	
07-03-17185	-Documentation.	Set	1	
07-03-17189	Network Management Equipment	Lot	0	
07-03-17190	-Central Network Management System platform(Hard ware)	Lot	0	
07-03-17191	-Central Network Management System software packages.	Set	0	
07-03-17192	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-17193	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-17194	-Installation Materials & Tools.	Lot	1	
07-03-17195	-Documentation..	Set	0	

Code	Item Description	Unit	Qty	Complementary Items
07-03-17119	Test Instruments	Lot	1	
07-03-17200	-Digital Multimeter.	Set	1	
07-03-17201	-Frequency Counter .	Set	1	
07-03-17202	-Power Meter .	Set	1	
07-03-17203	-PCM Multiplex Tester .	Set	1	
07-03-17204	-RF Sweep Generator .	Set	0	
07-03-17205	-VSWR Test Set.	Set	0	
07-03-17206	-Scalar Network Analyzer .	Set	0	
07-03-17207	-RF Spectrum Analyzer.	Set	0	
07-03-17208	-SDH Analyzer for STM-1.	Set	0	
07-03-17209	-TX / RX MW Link Analyzer .	Set	0	
07-03-17210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-17211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-17212	-Vedio Test Set.	Set	0	
07-03-17213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-17214	-Cables & Adapters.	Set	1	
07-03-17215	-Waveguide / Coax. Adapters.	Set	1	
07-03-17216	-Documentation.	Set	1	
07-03-17219	Specific Tools	Lot	0	
07-03-17220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-17221	-Specific Maintenance Tools	Lot	0	
07-03-17222	-Station Tools	Lot	1	
07-03-17223	-Special Tools for waveguide.	Lot	1	
07-03-17224	-Installation Tools.	Lot	1	
07-03-17229	Services	Lot	1	
07-03-17230	-Factory Training Abroad.	Trainee	0	
07-03-17231	-Training In Iraq.	Trainee	0	
07-03-17232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications
Sub - sector : : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name : KUT-T

Code	Item Description	Unit	Qty	Complementary Items
07-03-18100	SDH Microwave Radio Equipment	Lot	1	
07-03-18101	-STM-1, 6GHZ (3+1), (2+1) 11GHZ Radio Terminal With Frequency & Space Diversity all complete.	Set	3	
07-03-18102	-128 QAM Modems Modules.	Set	11	
07-03-18103	-Protection Switch.	Set	3	
07-03-18104	-Engineering order wire channel.	Set	2	
07-03-18105	-2Mb/s auxiliary traffic.	Set	3	
07-03-18106	-Interface to central Network management.	Set	3	
07-03-18107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-18108	-Rack with 48V. d/c unit (duplicated).	Set	4	
07-03-18109	-Installation & Maintenance tools & materials.	Lot	1	
07-03-18110	-Spare parts & spare units.	lot	1	
07-03-18111	-Documentation.	Set	1	
07-03-18119	Microwave Antennas	Lot	1	
07-03-18120	-Parabolic Dish (2.4-3.7m. diameter).	Set	5	
07-03-18121	-Antenna Radiation Element with (1 / 2) Ports.	Set	5	
07-03-18122	-Connector Flanges.	Set	5	
07-03-18123	-Tower Attachment.	Set	5	
07-03-18124	-Installation & Maintenance tools & materials.	Set	5	
07-03-18129	Microwave Feeders	Lot	1	
07-03-18130	-Elliptical waveguide for 8/6 GHZ band .	Meter	500	
07-03-18131	-Medium capacity dehydrator.	Unit	1	
07-03-18132	-Pressure Window.	Unit	5	
07-03-18133	-Fixture clamps.	Set		
07-03-18134	-Earthing Kits.	Set	5	
07-03-18135	-Installation materials & tools.	Set	5	
07-03-18136	-Documentation.	Set	2	
			1	
07-03-18139	DC Power Plant	Lot	1	
07-03-18140	-Modular switched rectifier system 48V / 30Ampere module (4+1) configuration.	Set	1	
07-03-18141	-48V, 300Ah Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-18142	-Cabinet.	Set	1	
07-03-18143	-Installation materials , cables, tools.	Set	2	
07-03-18144	-Documentation.	Set	1	
			1	
07-03-18149	Air Conditioners	Lot	1	
07-03-18150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-18151	-Piping & installation materials & fixtures.	Set	2	
07-03-18152	-Spare parts.	Set	2	
07-03-18153	-Documentation.	Set	2	
07-03-18159	Diesel Engine Generator	Lot	1	
07-03-18160	-Capacity 50 KVA, Dual Set.	Set		
07-03-18161	-Daily Fuel Tank.	Set	1	
07-03-18162	-Fan.	Set	1	
07-03-18163	-Piping.	Set	1	

07-03-18164	-Control cubicle & Alarms.	Set	1	
07-03-18165	-Installation Materials & Tools.	lot	1	
07-03-18166	-Spare parts & PCB's.	lot	1	
07-03-18167	-Documentation.	Set	1	
			1	
07-03-18169	SDH Multiplex Equipment	Lot	1	
07-03-18170	-STM-4 Mutliplexer Subrack with redundant common units	Set	2	
07-03-18171	-STM-1 Multiplex Subrack with redundant common units	Set		
07-03-18172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	1	
			3	
07-03-18173	-Access & Connection Modules.	Set		
07-03-18174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	2	
			7	
07-03-18175	-Full Matrix (duplicated).	Unit		
07-03-18176	-Auxiliary /Engineering order wire.	Set	4	
07-03-18177	-Telephone Handset.	Lot	1	
07-03-18178	-Installation Materials & Tools.	Lot	1	
07-03-18179	-Racks with power supply unit (duplicated)and cable head.	Set	2	
07-03-18180	-Digital Distribution Frames.	Set	4	
07-03-18181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	4	
			1	
07-03-18182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	2	
07-03-18183	-Spare parts & spare units.	Lot		
07-03-18184	-Installation materials & tools.	Lot	2	
07-03-18185	-Documentation.	Set	2	
			1	
07-03-18189	Network Management Equipment	Lot	1	
07-03-18190	-Central Network Management System platform(Hard ware)	Lot	0	
	-Central Network Management System software packages.	Set	0	
07-03-18191	-Local Network Management Equipment (craft terminals).	Lot	0	
07-03-18192	-Mediation , Interface, and connection cards &modules.	Lot	0	
07-03-18193	-Installation Materials & Tools.	Lot	0	
07-03-18194	-Documentation..	Set	0	
07-03-18195				
07-03-18119	Test Instruments	Lot	1	
07-03-18200	-Digital Multimeter.	Set	1	
07-03-18201	-Frequency Counter .	Set	1	
07-03-18202	-Power Meter .	Set	1	
07-03-18203	-PCM Multiplex Tester .	Set	1	
07-03-18204	-RF Sweep Generator .	Set	0	
07-03-18205	-VSWR Test Set.	Set	0	
07-03-18206	-Scalar Network Analyzer .	Set	0	
07-03-18207	-RF Spectrum Analyzer.	Set	0	
07-03-18208	-SDH Analyzer for STM-1.	Set	0	
07-03-18209	-TX / RX MW Link Analyzer .	Set	0	
07-03-18210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-18211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-18212	-Vedio Test Set.	Set	1	
07-03-18213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-18214	-Cables & Adapters.	Set	1	
07-03-18215	-Waveguide / Coax. Adapters.	Set	1	

07-03-18216	-Documentation.	Set	1	
07-03-18219	Specific Tools	Lot	1	
07-03-18220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-18221	-Specific Maintenance Tools	Lot	1	
07-03-18222	-Station Tools	Lot	1	
07-03-18223	-Special Tools for waveguide.	Lot	1	
07-03-18224	-Installation Tools.	Lot	1	
07-03-18229	Services	Lot	1	
07-03-18230	-Factory Training Abroad.	Trainee	1	
07-03-18231	-Training In Iraq.	Trainee	3	
07-03-18232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications
Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name : ALTHAGR

Code	Item Description	Unit	Qty	Complementary Items
07-03-19100	SDH Microwave Radio Equipment	Lot	1	
07-03-19101	-STM-1, 6 GHZ (3+1) RadioTerminal With Frequency & Space Diversity all complete.	Set	2	
07-03-19102	-128 QAM Modems Modules.	Set	8	
07-03-19103	-Protection Switch.	Set	2	
07-03-19104	-Engineering order wire channel.	Set	2	
07-03-19105	-2Mb/s auxiliary traffic.	Set	3	
07-03-19106	-Interface to central Network management.	Set	2	
07-03-19107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-19108	-Rack with 48V. d/c unit (duplicated).	Set	3	
07-03-19109	-Installation & Maintenance tools & materials.	lot	1	
07-03-19110	-Spare parts & spare units.	lot	1	
07-03-19111	-Documentation.	Set	1	
07-03-19119	Microwave Antennas	Lot	1	
07-03-19120	-Parabolic Dish (3 -3.7m. diameter).	Set	4	
07-03-19121	-Antenna Radiation Element with (1 / 2)Ports.	Set	4	
07-03-19122	-Connector Flanges.	Set	4	
07-03-19123	-Tower Attachment.	Set	4	
07-03-19124	-Installation & Maintenance tools & materials.	Set	4	
07-03-19129	Microwave Feeders	Lot	1	
07-03-19130	-Elliptical waveguide for 8/6 GHZ band .	Meter	400	
07-03-19131	-Medium capacity dehydrator.	Unit	1	
07-03-19132	-Pressure Window.	Unit	4	
07-03-19133	-Fixture clamps.	Set		
07-03-19134	-Earthing Kits.	Set	4	
07-03-19135	-Installation materials & tools.	Set	4	
07-03-19136	-Documentation.	Set	4	
07-03-19139	DC Power Plant	Lot	1	
07-03-19140	-Modular switched rectifier system 48V / 30Ampere module (3+1) configuration.	Set	1	
07-03-19141	-48V, 200Ah Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-19142	-Cabinet.	Set	1	
07-03-19143	-Installation materials , cables, tools.	Set	2	
07-03-19144	-Documentation.	Set	1	
07-03-19149	Air Conditioners	Lot	1	
07-03-19150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-19151	-Piping & installation materials & fixtures.	Set	2	
07-03-19152	-Spare parts.	Set	2	
07-03-19153	-Documentation.	Set	2	
07-03-19159	Diesel Engine Generator	Lot	1	
07-03-19160	-Capacity 50 KVA, Dual Set.	Set		
07-03-19161	-Daily Fuel Tank.	Set	1	

07-03-19162	-Fan.	Set	1	
07-03-19163	-Piping.	Set	1	
07-03-19164	-Control cubicle & Alarms.	Set	1	
07-03-19165	-Installation Materials & Tools.	lot	1	
07-03-19166	-Spare parts & PCB's.	lot	1	
07-03-19167	-Documentation.	Set	1	
			1	
07-03-19169	SDH Multiplex Equipment	Lot	1	
07-03-19170	-STM-4 Mutliplexer Subrack with redundant common units	Set	1	
07-03-19171	-STM-1 Multiplex Subrack with redundant common units	Set		
07-03-19172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	1	
07-03-19173	-Access & Connection Modules.	Set	1	
07-03-19171	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	0	
07-03-19175	-Full Matrix (duplicated).	Unit	0	
07-03-19176	-Auxiliary /Engineering order wire.	Set	2	
07-03-19177	-Telephone Handset.	Lot	1	
07-03-19178	-Installation Materials & Tools.	Lot	1	
07-03-19179	-Racks with power supply unit (duplicated)and cable head.	Set	1	
07-03-19180	-Digital Distribution Frames.	Set	1	
07-03-19181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	1	
07-03-19182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	2	
07-03-19183	-Spare parts & spare units.	Set	1	
07-03-19184	-Installation materials & tools.	Lot	1	
07-03-19185	-Documentation.	Lot	1	
		Set	1	
			1	
07-03-19189	Network Management Equipment	Lot	0	
07-03-19190	-Central Network Management System platform(Hard ware)	Lot	0	
	-Central Network Management System software packages.	Set	0	
07-03-19191	-Local Network Management Equipment (craft terminals).	Lot	0	
07-03-19192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-19193	-Installation Materials & Tools.	Lot	1	
07-03-19194	-Documentation..	Set	1	
07-03-19195				
07-03-19119	Test Instruments	Lot	0	
07-03-19200	-Digital Multimeter.	Set	1	
07-03-19201	-Frequency Counter .	Set	0	
07-03-19202	-Power Meter .	Set	0	
07-03-19203	-PCM Multiplex Tester .	Set	1	
07-03-19204	-RF Sweep Generator .	Set	0	
07-03-19205	-VSWR Test Set.	Set	0	
07-03-19206	-Scalar Network Analyzer .	Set	0	
07-03-19207	-RF Spectrum Analyzer.	Set	0	
07-03-19208	-SDH Analyzer for STM-1.	Set	0	
07-03-19209	-TX / RX MW Link Analyzer .	Set	0	
07-03-19210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-19211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-19212	-Vedio Test Set.	Set	0	
07-03-19213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	0	

07-03-19214	-Cables & Adapters.	Set	0	
07-03-19215	-Waveguide / Coax. Adapters.	Set	0	
07-03-19216	-Documentation.	Set	1	
07-03-19219	Specific Tools	Lot	0	
07-03-19220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-19221	-Specific Maintenance Tools	Lot	0	
07-03-19222	-Station Tools	Lot	1	
07-03-19223	-Special Tools for waveguide.	Lot	0	
07-03-19224	-Installation Tools.	Lot	0	
07-03-19229	Services	Lot	1	
07-03-19230	-Factory Training Abroad.	Trainee	1	
07-03-19231	-Training In Iraq.	Trainee	2	
07-03-19232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name : SHIAKH SAAD

Code	Item Description	Unit	Qty	Complemetary Items
07-03-20100	SDH Microwave Radio Equipment	Lot	1	
07-03-20101	-STM-1, 6 GHZ (3+1) RadioTerminal With Frequency & Space Diversity all complete.	Set	2	
07-03-20102	-128 QAM Modems Modules.	Set	8	
07-03-20103	-Protection Switch.	Set	2	
07-03-20104	-Engineering order wire channel.	Set	2	
07-03-20105	-2Mb/s auxiliary traffic.	Set	3	
07-03-20106	-Interface to central Network management.	Set	2	
07-03-20107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-20108	-Rack with 48V. d/c unit (duplicated).	Set	3	
07-03-20109	-Installation & Maintenance tools & materials.	lot	1	
07-03-20110	-Spare parts & spare units.	lot	1	
07-03-20111	-Documentation.	Set	1	
07-03-20119	Microwave Antennas	Lot	1	
07-03-20120	-Parabolic Dish (3 -3.7m. diameter).	Set	4	
07-03-20121	-Antenna Radiation Element with (1 / 2)Ports.	Set	4	
07-03-20122	-Connector Flanges.	Set	4	
07-03-20123	-Tower Attachment.	Set	4	
07-03-20124	-Installation & Maintenance tools & materials.	Set	4	
07-03-20129	Microwave Feeders	Lot	1	
07-03-20130	-Elliptical waveguide for 8/6 GHZ band .	Meter	400	
07-03-20131	-Medium capacity dehydrator.	Unit	1	
07-03-20132	-Pressure Window.	Unit	4	
07-03-20133	-Fixture clamps.	Set	4	
07-03-20134	-Earthing Kits.	Set	4	
07-03-20135	-Installation materials & tools.	Set	4	
07-03-20136	-Documentation.	Set	1	
07-03-20139	DC Power Plant	Lot	1	
07-03-20140	-Modular switched rectifier system 48V / 30Ampere module (3+1) configuration.	Set	1	
07-03-20141	-48V, 200Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-03-20142	-Cabinet.	Set	1	
07-03-20143	-Installation materials , cables, tools.	Set	2	
07-03-20144	-Documentation.	Set	1	
07-03-20149	Air Conditioners	Lot	1	
07-03-20150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-20151	-Piping & installation materials & fixtures.	Set	2	
07-03-20152	-Spare parts.	Set	2	
07-03-20153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complemetary Items
07-03-20159	Diesel Engine Generator	Lot	1	
07-03-20160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-20161	-Daily Fuel Tank.	Set	1	
07-03-20162	-Fan.	Set	1	
07-03-20163	-Piping.	Set	1	
07-03-20164	-Control cubicle & Alarms.	Set	1	
07-03-20165	-Installation Materials & Tools.	lot	1	
07-03-20166	-Spare parts & PCB's.	lot	1	
07-03-20167	-Documentation.	Set	1	
07-03-20169	SDH Multiplex Equipment	Lot	1	
07-03-20170	-STM-4 Mutlplexer Subrack with redundant common units	Set	1	
07-03-20171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-20171	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	1	
07-03-20172	-Access & Connection Modules.	Set	0	
07-03-20173	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP	Lot	0	
07-03-20174	containd in subracks with common units & with function units,controllers ,connectors, ETC.....			
07-03-20175	-Full Matrix (duplicated).	Unit	2	
07-03-20176	-Auxiliary /Engineering order wire.	Set	1	
07-03-20176	-Telephone Handset.	Lot	1	
07-03-20177	-Installation Materials & Tools.	Lot	1	
07-03-20178	-Racks with power supply unit (duplicated)and cable head.	Set	1	
07-03-20179	-Digital Distribution Frames.	Set	1	
07-03-20180	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	2	
07-03-20181	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	1	
07-03-20182	-Spare parts & spare units.	Lot	1	
07-03-20183	-Installation materials & tools.	Lot	1	
07-03-20184	-Documentation.	Set	1	
07-03-20185				
07-03-20189	Network Management Equipment	Lot	0	
07-03-20190	-Central Network Management System platform(Hard ware)	Lot	0	
07-03-20191	-Central Network Management System software packages.	Set	0	
07-03-20191	-Local Network Management Equipment (craft terminals).	Lot	0	
07-03-20192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-20193	-Installation Materials & Tools.	Lot	1	
07-03-20194	-Documentation..	Set	1	
07-03-20195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-20119	Test Instruments	Lot	0	
07-03-20200	-Digital Multimeter.	Set	1	
07-03-20201	-Frequency Counter .	Set	0	
07-03-20202	-Power Meter .	Set	0	
07-03-20203	-PCM Multiplex Tester .	Set	1	
07-03-20204	-RF Sweep Generator .	Set	0	
07-03-20205	-VSWR Test Set.	Set	0	
07-03-20206	-Scalar Network Analyzer .	Set	0	
07-03-20207	-RF Spectrum Analyzer.	Set	0	
07-03-20208	-SDH Analyzer for STM-1.	Set	0	
07-03-20209	-TX / RX MW Link Analyzer .	Set	0	
07-03-20210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-20211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-20212	-Vedio Test Set.	Set	0	
07-03-20213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	0	
07-03-20214	-Cables & Adapters.	Set	0	
07-03-20215	-Waveguide / Coax. Adapters.	Set	0	
07-03-20216	-Documentation.	Set	1	
07-03-20219	Specific Tools	Lot	0	
07-03-20220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-20221	-Specific Maintenance Tools	Lot	0	
07-03-20222	-Station Tools	Lot	1	
07-03-20223	-Special Tools for waveguide.	Lot	0	
07-03-20224	-Installation Tools.	Lot	0	
07-03-20229	Services	Lot	1	
07-03-20230	-Factory Training Abroad.	Trainee	1	
07-03-20231	-Training In Iraq.	Trainee	2	
07-03-20232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name : ALI - AL SHARQI

Code	Item Description	Unit	Qty	Complementary Items
07-03-21100	SDH Microwave Radio Equipment	Lot	1	
07-03-21101	-STM-1, 6 GHZ (3+1) RadioTerminal With Frequency & Space Diversity all complete.	Set	2	
07-03-21102	-128 QAM Modems Modules.	Set	8	
07-03-21103	-Protection Switch.	Set	2	
07-03-21104	-Engineering order wire channel.	Set	2	
07-03-21105	-2Mb/s auxiliary traffic.	Set	3	
07-03-21106	-Interface to central Network management.	Set	2	
07-03-21107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-21108	-Rack with 48V. d/c unit (duplicated).	Set	3	
07-03-21109	-Installation & Maintenance tools & materials.	lot	1	
07-03-21110	-Spare parts & spare units.	lot	1	
07-03-21111	-Documentation.	Set	1	
07-03-21119	Microwave Antennas	Lot	1	
07-03-21120	-Parabolic Dish (3 -3.7m. diameter).	Set	4	
07-03-21121	-Antenna Radiation Element with (1 / 2)Ports.	Set	4	
07-03-21122	-Connector Flanges.	Set	4	
07-03-21123	-Tower Attachment.	Set	4	
07-03-21124	-Installation & Maintenance tools & materials.	Set	4	
07-03-21129	Microwave Feeders	Lot	1	
07-03-21130	-Elliptical waveguide for 8/6 GHZ band .	Meter	400	
07-03-21131	-Medium capacity dehydrator.	Unit	1	
07-03-21132	-Pressure Window.	Unit	4	
07-03-21133	-Fixture clamps.	Set		
07-03-21134	-Earthing Kits.	Set	4	
07-03-21135	-Installation materials & tools.	Set	4	
07-03-21136	-Documentation.	Set	4	
07-03-21139	DC Power Plant	Lot	1	
07-03-21140	-Modular switched rectifier system 48V / 30Ampere module (3+1) configuration.	Set	1	
07-03-21141	-48V, 200Ah Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-21142	-Cabinet.	Set	1	
07-03-21143	-Installation materials , cables, tools.	Set	2	
07-03-21144	-Documentation.	Set	1	
07-03-21149	Air Conditioners	Lot	1	
07-03-21150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-21151	-Piping & installation materials & fixtures.	Set	2	
07-03-21152	-Spare parts.	Set	2	
07-03-21153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-21159	Diesel Engine Generator	Lot	1	
07-03-21160	-Capacity 50 KVA, Dual Set.	Set		
07-03-21161	-Daily Fuel Tank.	Set	1	
07-03-21162	-Fan.	Set	1	
07-03-21163	-Piping.	Set	1	
07-03-21164	-Control cubicle & Alarms.	Set	1	
07-03-21165	-Installation Materials & Tools.	lot	1	
07-03-21166	-Spare parts & PCB's.	lot	1	
07-03-21167	-Documentation.	Set	1	
			1	
07-03-21169	SDH Multiplex Equipment	Lot	1	
07-03-21170	-STM-4 Mutlplexer Subrack with redundant common units	Set	1	
07-03-21171	-STM-1 Multiplex Subrack with redundant common units	Set		
07-03-21172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	1	
07-03-21173	-Access & Connection Modules.	Set		
07-03-21174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	0	
07-03-21175	-Full Matrix (duplicated).	Unit		
07-03-21176	-Auxiliary /Engineering order wire.	Set	2	
07-03-21177	-Telephone Handset.	Lot	1	
07-03-21178	-Installation Materials & Tools.	Lot	1	
07-03-21179	-Racks with power supply unit (duplicated)and cable head.	Set	1	
07-03-21180	-Digital Distribution Frames.	Set	1	
07-03-21181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	1	
07-03-21182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	2	
07-03-21183	-Spare parts & spare units.	Set	1	
07-03-21184	-Installation materials & tools.	Lot	1	
07-03-21185	-Documentation.	Lot	1	
		Set	1	
			1	
07-03-21189	Network Management Equipment	Lot	0	
07-03-21190	-Central Network Management System platform(Hard ware)	Lot	0	
	-Central Network Management System software packages.	Set	0	
07-03-21191	-Local Network Management Equipment (craft terminals).	Lot	0	
07-03-21192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-21193	-Installation Materials & Tools.	Lot	1	
07-03-21194	-Documentation..	Set	1	
07-03-21195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-21119	Test Instruments	Lot	0	
07-03-21200	-Digital Multimeter.	Set	1	
07-03-21201	-Frequency Counter .	Set	0	
07-03-21202	-Power Meter .	Set	0	
07-03-21203	-PCM Multiplex Tester .	Set	1	
07-03-21204	-RF Sweep Generator .	Set	0	
07-03-21205	-VSWR Test Set.	Set	0	
07-03-21206	-Scalar Network Analyzer .	Set	0	
07-03-21207	-RF Spectrum Analyzer.	Set	0	
07-03-21208	-SDH Analyzer for STM-1.	Set	0	
07-03-21209	-TX / RX MW Link Analyzer .	Set	0	
07-03-21210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-21211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-21212	-Vedio Test Set.	Set	0	
07-03-21213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	0	
07-03-21214	-Cables & Adapters.	Set	0	
07-03-21215	-Waveguide / Coax. Adapters.	Set	0	
07-03-21216	-Documentation.	Set	1	
07-03-21219	Specific Tools	Lot	0	
07-03-21220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-21221	-Specific Maintenance Tools	Lot	0	
07-03-21222	-Station Tools	Lot	1	
07-03-21223	-Special Tools for waveguide.	Lot	0	
07-03-21224	-Installation Tools.	Lot	0	
07-03-21229	Services	Lot	1	
07-03-21230	-Factory Training Abroad.	Trainee	1	
07-03-21231	-Training In Iraq.	Trainee	2	
07-03-21232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name : ALI - AL GHARBI

Code	Item Description	Unit	Qty	Complementary Items
07-03-22100	SDH Microwave Radio Equipment	Lot	1	
07-03-22101	-STM-1, 6 GHZ (3+1) RadioTerminal With Frequency & Space Diversity all complete.	Set	2	
07-03-22102	-128 QAM Modems Modules.	Set	8	
07-03-22103	-Protection Switch.	Set	2	
07-03-22104	-Engineering order wire channel.	Set	2	
07-03-22105	-2Mb/s auxiliary traffic.	Set	3	
07-03-22106	-Interface to central Network management.	Set	2	
07-03-22107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-22108	-Rack with 48V. d/c unit (duplicated).	Set	3	
07-03-22109	-Installation & Maintenance tools & materials.	lot	1	
07-03-22110	-Spare parts & spare units.	lot	1	
07-03-22111	-Documentation.	Set	1	
07-03-22119	Microwave Antennas	Lot	1	
07-03-22120	-Parabolic Dish (3 -3.7m. diameter).	Set	4	
07-03-22121	-Antenna Radiation Element with (1 / 2)Ports.	Set	4	
07-03-22122	-Connector Flanges.	Set	4	
07-03-22123	-Tower Attachment.	Set	4	
07-03-22124	-Installation & Maintenance tools & materials.	Set	4	
07-03-22129	Microwave Feeders	Lot	1	
07-03-22130	-Elliptical waveguide for 8/6 GHZ band .	Meter	400	
07-03-22131	-Medium capacity dehydrator.	Unit	1	
07-03-22132	-Pressure Window.	Unit	4	
07-03-22133	-Fixture clamps.	Set		
07-03-22134	-Earthing Kits.	Set	4	
07-03-22135	-Installation materials & tools.	Set	4	
07-03-22136	-Documentation.	Set	4	
07-03-22139	DC Power Plant	Lot	1	
07-03-22140	-Modular switched rectifier system 48V / 30Ampere module (3+1) configuration.	Set	1	
07-03-22141	-48V, 200Ah Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-22142	-Cabinet.	Set	1	
07-03-22143	-Installation materials , cables, tools.	Set	2	
07-03-22144	-Documentation.	Set	1	
07-03-22149	Air Conditioners	Lot	1	
07-03-22150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-22151	-Piping & installation materials & fixtures.	Set	2	
07-03-22152	-Spare parts.	Set	2	
07-03-22153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-22159	Diesel Engine Generator	Lot	1	
07-03-22160	-Capacity 50 KVA, Dual Set.	Set		
07-03-22161	-Daily Fuel Tank.	Set	1	
07-03-22162	-Fan.	Set	1	
07-03-22163	-Piping.	Set	1	
07-03-22164	-Control cubicle & Alarms.	Set	1	
07-03-22165	-Installation Materials & Tools.	lot	1	
07-03-22166	-Spare parts & PCB's.	lot	1	
07-03-22167	-Documentation.	Set	1	
			1	
07-03-22169	SDH Multiplex Equipment	Lot	1	
07-03-22170	-STM-4 Mutliplexer Subrack with redundant common units	Set	1	
07-03-22171	-STM-1 Multiplex Subrack with redundant common units	Set		
07-03-22172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	1	
07-03-22173	-Access & Connection Modules.	Set		
07-03-22174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	0	
07-03-22175	-Full Matrix (duplicated).	Unit		
07-03-22176	-Auxiliary /Engineering order wire.	Set	2	
07-03-22177	-Telephone Handset.	Lot	1	
07-03-22178	-Installation Materials & Tools.	Lot	1	
07-03-22179	-Racks with power supply unit (duplicated)and cable head.	Set	1	
07-03-22180	-Digital Distribution Frames.	Set	1	
07-03-22181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	1	
07-03-22182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	2	
07-03-22183	-Spare parts & spare units.	Set	1	
07-03-22184	-Installation materials & tools.	Lot	1	
07-03-22185	-Documentation.	Lot	1	
		Set	1	
			1	
07-03-22189	Network Management Equipment	Lot	0	
07-03-22190	-Central Network Management System platform(Hard ware)	Lot	0	
	-Central Network Management System software packages.	Set	0	
07-03-22191	-Local Network Management Equipment (craft terminals).	Lot	0	
07-03-22192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-22193	-Installation Materials & Tools.	Lot	1	
07-03-22194	-Documentation..	Set	1	
07-03-22195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-22119	Test Instruments	Lot	0	
07-03-22200	-Digital Multimeter.	Set	1	
07-03-22201	-Frequency Counter .	Set	0	
07-03-22202	-Power Meter .	Set	0	
07-03-22203	-PCM Multiplex Tester .	Set	1	
07-03-22204	-RF Sweep Generator .	Set	0	
07-03-22205	-VSWR Test Set.	Set	0	
07-03-22206	-Scalar Network Analyzer .	Set	0	
07-03-22207	-RF Spectrum Analyzer.	Set	0	
07-03-22208	-SDH Analyzer for STM-1.	Set	0	
07-03-22209	-TX / RX MW Link Analyzer .	Set	0	
07-03-22210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-22211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-22212	-Vedio Test Set.	Set	0	
07-03-22213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	0	
07-03-22214	-Cables & Adapters.	Set	0	
07-03-22215	-Waveguide / Coax. Adapters.	Set	0	
07-03-22216	-Documentation.	Set	1	
07-03-22219	Specific Tools	Lot	0	
07-03-22220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-22221	-Specific Maintenance Tools	Lot	0	
07-03-22222	-Station Tools	Lot	1	
07-03-22223	-Special Tools for waveguide.	Lot	0	
07-03-22224	-Installation Tools.	Lot	0	
07-03-22229	Services	Lot	1	
07-03-22230	-Factory Training Abroad.	Trainee	1	
07-03-22231	-Training In Iraq.	Trainee	2	
07-03-22232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name : DORA

Code	Item Description	Unit	Qty	Complemet ary Items
07-03-23100	SDH Microwave Radio Equipment	Lot	1	
07-03-23101	-STM-1, 6 GHZ (1+1) Radio Terminal With Frequency & Space Diversity all complete.	Set	2	
07-03-23102	-128 QAM Modems Modules.	Set	4	
07-03-23103	-Protection Switch.	Set	1	
07-03-23104	-Engineering order wire channel.	Set	2	
07-03-23105	-2Mb/s auxiliary traffic.	Set	2	
07-03-23106	-Interface to central Network management.	Set	2	
07-03-23107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-23108	-Rack with 48V. d/c unit (duplicated).	Set	3	
07-03-23109	-Installation & Maintenance tools & materials.	Set	1	
07-03-23110	-Spare parts & spare units.	Set	1	
07-03-23111	-Documentation.	Set	1	
07-03-23112	-Galvanized steel self suboorted 70m high microwave Tower all complet with earthing, Painting .lighting . &fightning subsystem (concrete fowdatwns))	lot	1	
07-03-23119	Microwave Antennas	Lot	1	
07-03-23120	-Parabolic Dish (2.4-3.0m. diameter).	Set	4	
07-03-23121	-Antenna Radiation Element with (1 / 2)Ports.	Set	4	
07-03-23122	-Connector Flanges.	Set	4	
07-03-23123	-Tower Attachment.	Set	4	
07-03-23124	-Installation & Maintenance tools & materials	Set	4	
07-03-23129	Microwave Feeders	Lot	1	
07-03-23130	-Elliptical waveguide for 8/6 GHZ band .	Meter	400	
07-03-23131	-Medium capacity dehydrator.	Unit	1	
07-03-23132	-Pressure Window.	Unit	4	
07-03-23133	-Fixture clamps.	Set	4	
07-03-23134	-Earthing Kits.	Set	4	
07-03-23135	-Installation materials & tools.	Set	4	
07-03-23136	-Documentation.	Set	1	
07-03-23139	DC Power Plant	Lot	1	
07-03-23140	-Modular switched rectifier system 48V / 30Ampere module (2+1) configuration.	Set	1	
07-03-23141	-48V, 200Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-03-23142	-Cabinet.	Set	1	
07-03-23143	-Installation materials , cables, tools.	lot	2	
07-03-23144	-Documentation.	Set	1	
07-03-23149	Air Conditioners	Lot	1	
07-03-23150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-23151	-Piping & installation materials & fixtures.	Set	2	
07-03-23152	-Spare parts.	Set	2	
07-03-23153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complemetary Items
07-03-23159	Diesel Engine Generator	Lot	1	
07-03-23160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-23161	-Daily Fuel Tank.	Set	1	
07-03-23162	-Fan.	Set	1	
07-03-23163	-Piping.	Set	1	
07-03-23164	-Control cubicle & Alarms.	Set	1	
07-03-23165	-Installation Materials & Tools.	lot	1	
07-03-23166	-Spare parts & PCB's.	Set	1	
07-03-23167	-Documentation.	Set	1	
07-03-23169	SDH Multiplex Equipment	Lot	1	
07-03-23170	-STM-4 Mutlplexer Subrack with redundant common units	Set	0	
07-03-23171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-23171	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	1	
07-03-23172	-Access & Connection Modules.	Set	0	
07-03-23173	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP	Lot	0	
07-03-23174	containd in subracks with common units & with function units,controllers ,connectors, ETC.....			
	-Full Matrix (duplicated).	Unit	1	
	-Auxiliary /Engineering order wire.	Set	1	
07-03-23175	-Telephone Handset.	Lot	1	
07-03-23176	-Installation Materials & Tools.	Lot	1	
07-03-23177	-Racks with power supply unit (duplicated)and cable head.	Set	1	
07-03-23178	-Digital Distribution Frames.	Set	1	
07-03-23179	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	2	
07-03-23180	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	1	
07-03-23181	-Spare parts & spare units.	Lot	1	
07-03-23182	-Installation materials & tools.	Lot	1	
	-Documentation.	Set	1	
07-03-23183				
07-03-23184				
07-03-23185				
07-03-23189	Network Management Equipment	Lot	0	
07-03-23190	-Central Network Management System platform(Hard ware)	Lot	0	
		Set	0	
07-03-23191	-Central Network Management System software packages.	Lot	0	
	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-23192	-Mediation , Interface, and connection cards &modules.	Lot	1	
	-Installation Materials & Tools.	Set	1	
07-03-23193	-Documentation..			
07-03-23194				
07-03-23195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-23119	Test Instruments	Lot	0	
07-03-23200	-Digital Multimeter.	Set	1	
07-03-23201	-Frequency Counter .	Set	0	
07-03-23202	-Power Meter .	Set	1	
07-03-23203	-PCM Multiplex Tester .	Set	1	
07-03-23204	-RF Sweep Generator .	Set	0	
07-03-23205	-VSWR Test Set.	Set	0	
07-03-23206	-Scalar Network Analyzer .	Set	0	
07-03-23207	-RF Spectrum Analyzer.	Set	0	
07-03-23208	-SDH Analyzer for STM-1.	Set	0	
07-03-23209	-TX / RX MW Link Analyzer .	Set	0	
07-03-23210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-23211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-23212	-Vedio Test Set.	Set	0	
07-03-23213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-23214	-Cables & Adapters.	Set	1	
07-03-23215	-Waveguide / Coax. Adapters.	Set	1	
07-03-23216	-Documentation.	Set	1	
07-03-23219	Specific Tools	Lot	0	
07-03-23220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-23221	-Specific Maintenance Tools	Lot	0	
07-03-23222	-Station Tools	Lot	1	
07-03-23223	-Special Tools for waveguide.	Lot	0	
07-03-23224	-Installation Tools.	Lot	0	
07-03-23229	Services	Lot	1	
07-03-23230	-Factory Training Abroad.	Trainee	0	
07-03-23231	-Training In Iraq.	Trainee	0	
07-03-23232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name :SIBA

Code	Item Description	Unit	Qty	Complementary Items
07-03-24100	SDH Microwave Radio Equipment	Lot	1	
07-03-24101	-STM-1, 6 GHZ (1+1) Radio Terminal With Frequency & Space Diversity all complete.	Set	2	
07-03-24102	-128 QAM Modems Modules.	Set	4	
07-03-24103	-Protection Switch.	Set	1	
07-03-24104	-Engineering order wire channel.	Set	2	
07-03-24105	-2Mb/s auxiliary traffic.	Set	2	
07-03-24106	-Interface to central Network management.	Set	2	
07-03-24107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-24108	-Rack with 48V. d/c unit (duplicated).	Set	3	
07-03-24109	-Installation & Maintenance tools & materials.	Set	1	
07-03-24110	-Spare parts & spare units.	Set	1	
07-03-24111	-Documentation.	Set	1	
07-03-24112	-Galvanized steel self suboorted 70m high microwave Tower all complet with earthing, Painting .lighting . fighting subsystem (concrete fowdatwns)	lot	1	
07-03-24119	Microwave Antennas	Lot	1	
07-03-24120	-Parabolic Dish (2.4-3.0m. diameter).	Set	4	
07-03-24121	-Antenna Radiation Element with (1 / 2)Ports.	Set	4	
07-03-24122	-Connector Flanges.	Set	4	
07-03-24123	-Tower Attachment.	Set	4	
07-03-24124	-Installation & Maintenance tools & materials	Set	4	
07-03-24129	Microwave Feeders	Lot	1	
07-03-24130	-Elliptical waveguide for 8/6 GHZ band .	Meter	400	
07-03-24131	-Medium capacity dehydrator.	Unit	1	
07-03-24132	-Pressure Window.	Unit	4	
07-03-24133	-Fixture clamps.	Set		
07-03-24134	-Earthing Kits.	Set	4	
07-03-24135	-Installation materials & tools.	Set	4	
07-03-24136	-Documentation.	Set	4	
07-03-24139	DC Power Plant	Lot	1	
07-03-24140	-Modular switched rectifier system 48V / 30Ampere module (2+1) configuration.	Set	1	
07-03-24141	-48V, 200Ah Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-24142	-Cabinet.	Set	1	
07-03-24143	-Installation materials , cables, tools.	lot	2	
07-03-24144	-Documentation.	Set	1	
07-03-24149	Air Conditioners	Lot	1	
07-03-24150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-24151	-Piping & installation materials & fixtures.	Set	2	
07-03-24152	-Spare parts.	Set	2	
07-03-24153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-24159	Diesel Engine Generator	Lot	1	
07-03-24160	-Capacity 50 KVA, Dual Set.	Set		
07-03-24161	-Daily Fuel Tank.	Set	1	
07-03-24162	-Fan.	Set	1	
07-03-24163	-Piping.	Set	1	
07-03-24164	-Control cubicle & Alarms.	Set	1	
07-03-24165	-Installation Materials & Tools.	lot	1	
07-03-24166	-Spare parts & PCB's.	Set	1	
07-03-24167	-Documentation.	Set	1	
			1	
07-03-24169	SDH Multiplex Equipment	Lot	1	
07-03-24170	-STM-4 Mutliplexer Subrack with redundant common units	Set	0	
07-03-24171	-STM-1 Multiplex Subrack with redundant common units	Set		
07-03-24172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	1	
07-03-24173	-Access & Connection Modules.	Set	1	
07-03-24174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	0	
07-03-24175	-Full Matrix (duplicated).	Unit	0	
07-03-24176	-Auxiliary /Engineering order wire.	Set	1	
07-03-24177	-Telephone Handset.	Lot	1	
07-03-24178	-Installation Materials & Tools.	Lot	1	
07-03-24179	-Racks with power supply unit (duplicated)and cable head.	Set	1	
07-03-24180	-Digital Distribution Frames.	Set	1	
07-03-24182	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	1	
07-03-24182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	2	
07-03-24183	-Spare parts & spare units.	Set	1	
07-03-24184	-Installation materials & tools.	Lot	1	
07-03-24185	-Documentation.	Lot	1	
		Set	1	
			1	
07-03-24189	Network Management Equipment	Lot	0	
07-03-24190	-Central Network Management System platform(Hard ware)	Lot	0	
	-Central Network Management System software packages.	Set	0	
07-03-24191	-Local Network Management Equipment (craft terminals).	Lot	0	
07-03-24192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-24193	-Installation Materials & Tools.	Lot	1	
07-03-24194	-Documentation..	Set	1	
07-03-24195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-24119	Test Instruments	Lot	0	
07-03-24200	-Digital Multimeter.	Set	1	
07-03-24201	-Frequency Counter .	Set	0	
07-03-24202	-Power Meter .	Set	1	
07-03-24203	-PCM Multiplex Tester .	Set	1	
07-03-24204	-RF Sweep Generator .	Set	0	
07-03-24205	-VSWR Test Set.	Set	0	
07-03-24206	-Scalar Network Analyzer .	Set	0	
07-03-24207	-RF Spectrum Analyzer.	Set	0	
07-03-24208	-SDH Analyzer for STM-1.	Set	0	
07-03-24209	-TX / RX MW Link Analyzer .	Set	0	
07-03-24210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-24211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-24212	-Vedio Test Set.	Set	0	
07-03-24213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-24214	-Cables & Adapters.	Set	1	
07-03-24215	-Waveguide / Coax. Adapters.	Set	1	
07-03-24216	-Documentation.	Set	1	
07-03-24219	Specific Tools	Lot	0	
07-03-24220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-24221	-Specific Maintenance Tools	Lot	0	
07-03-24222	-Station Tools	Lot	1	
07-03-24223	-Special Tools for waveguide.	Lot	0	
07-03-24224	-Installation Tools.	Lot	0	
07-03-24229	Services	Lot	1	
07-03-24230	-Factory Training Abroad.	Trainee	0	
07-03-24231	-Training In Iraq.	Trainee	0	
07-03-24232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name :SWAIRA Ex.

Code	Item Description	Unit	Qty	Compleme tary Items
07-03-25100	SDH Microwave Radio Equipment	Lot	1	
07-03-25101	-STM-1,11GHZ (1+1) Radio terminal	Set	1	
07-03-25102	-128 QAM Modems Modules.			
07-03-25103	-Protection Switch.	Set	2	
07-03-25104	-Engineering order wire channel.	Set	1	
07-03-25105	-2Mb/s auxiliary traffic.	Set	1	
07-03-25106	-Interface to central Network management.	Set	1	
07-03-25107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-25108	-Rack with 48V. d/c unit (duplicated).	Set	1	
07-03-25109	-Installation & Maintenance tools & materials.	Set	2	
07-03-25110	-Spare parts & spare units.	lot	1	
07-03-25112	-Documentation.	lot	1	
		Set	1	
07-03-25119	Microwave Antennas	Lot	1	
07-03-25120	-Parabolic Dish (1.8-2.4m. diameter).	Set	1	
07-03-25121	-Antenna Radiation Element with (1 / 2)Ports.	Set	1	
07-03-25122	-Connector Flanges.	Set	1	
07-03-25123	-Tower Attachment.	Set	1	
07-03-25124	-Installation & Maintenance tools & materials.	Set	1	
07-03-25129	Microwave Feeders	Lot	1	
07-03-25130	-Elliptical waveguide for 11GHZ band .	Meter	100	
07-03-25131	-Medium capacity dehydrator.	Unit	1	
07-03-25132	-Pressure Window.	Unit	1	
07-03-25133	-Fixture clamps.	Set	1	
07-03-25134	-Earthing Kits.	Set	1	
07-03-25135	-Installation materials & tools.	lot	1	
07-03-25136	-Documentation.	Set	1	
07-03-25139	DC Power Plant	Lot	1	
07-03-25142	-Modular switched rectifier system 48V / 30Ampere	Set		
	module (2+1) configuration.		1	
07-03-25141	-48V, 200Ah Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-25142	-Cabinet.	Set	1	
07-03-25143	-Installation materials , cables, tools.	Set	2	
07-03-25144	-Documentation.	Set	1	
			1	
07-03-25149	Air Conditioners	Lot	1	
07-03-25150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-25151	-Piping & installation materials & fixtures.	Set	2	
07-03-25152	-Spare parts.	Set	2	
07-03-25153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-25159	Diesel Engine Generator	Lot	1	
07-03-25160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-25161	-Daily Fuel Tank.	Set	1	
07-03-25162	-Fan.	Set	1	
07-03-25163	-Piping.	Set	1	
07-03-25164	-Control cubicle & Alarms.	Set	1	
07-03-25165	-Installation Materials & Tools.	lot	1	
07-03-25166	-Spare parts & PCB's.	Set	1	
07-03-25167	-Documentation.	Set	1	
07-03-25169	SDH Multiplex Equipment	Lot	1	
07-03-25170	-STM-4 Multiplexer Subrack with redundant common units	Set	0	
07-03-25171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-25172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	1	
07-03-25173	-Access & Connection Modules.	Set	1	
07-03-25172	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	1	
07-03-25175	-Full Matrix (duplicated).	Unit	1	
07-03-25176	-Auxiliary /Engineering order wire.	Set	1	
07-03-25177	-Telephone Handset.	Set	1	
07-03-25178	-Installation Materials & Tools.	Lot	0	
07-03-25179	-Racks with power supply unit (duplicated)and cable head.	Set	1	
07-03-25180	-Digital Distribution Frames.	Set	1	
07-03-25182	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	2	
07-03-25182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	1	
07-03-25183	-Spare parts & spare units.	Lot	1	
07-03-25184	-Installation materials & tools.	Lot	1	
07-03-25185	-Documentation.	Set	1	
07-03-25189	Network Management Equipment	Lot	0	
07-03-25190	-Central Network Management System platform(Hard ware)	Lot	0	
	-Central Network Management System software packages.	Set	0	
07-03-25191	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-25192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-25193	-Installation Materials & Tools.	Lot	1	
07-03-25194	-Documentation..	Set	0	
07-03-25195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-25119	Test Instruments	Lot	1	
07-03-25200	-Digital Multimeter.	Set	1	
07-03-25201	-Frequency Counter .	Set	1	
07-03-25202	-Power Meter .	Set	1	
07-03-25203	-PCM Multiplex Tester .	Set	1	
07-03-25204	-RF Sweep Generator .	Set	0	
07-03-25205	-VSWR Test Set.	Set	0	
07-03-25206	-Scalar Network Analyzer .	Set	0	
07-03-25207	-RF Spectrum Analyzer.	Set	0	
07-03-25208	-SDH Analyzer for STM-1.	Set	0	
07-03-25209	-TX / RX MW Link Analyzer .	Set	0	
07-03-25210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-25211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-25212	-Vedio Test Set.	Set	0	
07-03-25213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-25214	-Cables & Adapters.	Set	1	
07-03-25215	-Waveguide / Coax. Adapters.	Set	1	
07-03-25216	-Documentation.	Set	1	
07-03-25219	Specific Tools	Lot	0	
07-03-25220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-25221	-Specific Maintenance Tools	Lot	0	
07-03-25222	-Station Tools	Lot	1	
07-03-25223	-Special Tools for waveguide.	Lot	1	
07-03-25224	-Installation Tools.	Lot	1	
07-03-25229	Services	Lot	1	
07-03-25230	-Factory Training Abroad.	Trainee	0	
07-03-25231	-Training In Iraq.	Trainee	0	
07-03-25232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name : Qurna Ex.

Code	Item Description	Unit	Qty	Compleme tary Items
07-03-26100	SDH Microwave Radio Equipment	Lot	1	
07-03-26101	-STM-1,11GHZ (1+1) Radio terminal	Set	1	
07-03-26102	-128 QAM Modems Modules.	Set	2	
07-03-26103	-Protection Switch.	Set	1	
07-03-26104	-Engineering order wire channel.	Set	1	
07-03-26105	-2Mb/s auxiliary traffic.	Set	1	
07-03-26106	-Interface to central Network management.	Set	1	
07-03-26107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-26108	-Rack with 48V. d/c unit (duplicated).	Set	2	
07-03-26109	-Installation & Maintenance tools & materials.	lot	1	
07-03-26110	-Spare parts & spare units.	lot	1	
07-03-26112	-Documentation.	Set	1	
07-03-26119	Microwave Antennas	Lot	1	
07-03-26120	-Parabolic Dish (1.8-2.4m. diameter).	Set	1	
07-03-26121	-Antenna Radiation Element with (1 / 2)Ports.	Set	1	
07-03-26122	-Connector Flanges.	Set	1	
07-03-26123	-Tower Attachment.	Set	1	
07-03-26124	-Installation & Maintenance tools & materials.	Set	1	
07-03-26129	Microwave Feeders	Lot	1	
07-03-26130	-Elliptical waveguide for 11GHZ band .	Meter	100	
07-03-26131	-Medium capacity dehydrator.	Unit	1	
07-03-26132	-Pressure Window.	Unit	1	
07-03-26133	-Fixture clamps.	Set	1	
07-03-26134	-Earthing Kits.	Set	1	
07-03-26135	-Installation materials & tools.	lot	1	
07-03-26136	-Documentation.	Set	1	
07-03-26139	DC Power Plant	Lot	1	
07-03-26142	-Modular switched rectifier system 48V / 30Ampere	Set		
	module (2+1) configuration.		1	
07-03-26141	-48V, 200Ah Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-24142	-Cabinet.	Set	1	
07-03-26143	-Installation materials , cables, tools.	Set	2	
07-03-26144	-Documentation.	Set	1	
			1	
07-03-26149	Air Conditioners	Lot	1	
07-03-26150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-26151	-Piping & installation materials & fixtures.	Set	2	
07-03-26152	-Spare parts.	Set	2	
07-03-26153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-26159	Diesel Engine Generator	Lot	1	
07-03-26160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-26161	-Daily Fuel Tank.	Set	1	
07-03-26162	-Fan.	Set	1	
07-03-26163	-Piping.	Set	1	
07-03-26164	-Control cubicle & Alarms.	Set	1	
07-03-26165	-Installation Materials & Tools.	lot	1	
07-03-26166	-Spare parts & PCB's.	Set	1	
07-03-26167	-Documentation.	Set	1	
07-03-26169	SDH Multiplex Equipment	Lot	1	
07-03-26170	-STM-4 Multiplexer Subrack with redundant common units	Set	0	
07-03-26171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-26172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	1	
07-03-26173	-Access & Connection Modules.	Set	1	
07-03-26172	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	1	
07-03-26175	-Full Matrix (duplicated).	Unit	1	
07-03-26176	-Auxiliary /Engineering order wire.	Set	1	
07-03-26177	-Telephone Handset.	Set	1	
07-03-26178	-Installation Materials & Tools.	Lot	0	
07-03-26179	-Racks with power supply unit (duplicated)and cable head.	Set	1	
07-03-26180	-Digital Distribution Frames.	Set	1	
07-03-26182	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	2	
07-03-26182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	1	
07-03-26263	-Spare parts & spare units.	Lot	1	
07-03-26184	-Installation materials & tools.	Lot	1	
07-03-26185	-Documentation.	Set	1	
07-03-26189	Network Management Equipment	Lot	0	
07-03-26190	-Central Network Management System platform(Hard ware)	Lot	0	
	-Central Network Management System software packages.	Set	0	
07-03-26191	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-26192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-26193	-Installation Materials & Tools.	Lot	1	
07-03-26194	-Documentation..	Set	0	
07-03-26195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-26119	Test Instruments	Lot	1	
07-03-26200	-Digital Multimeter.	Set	1	
07-03-26201	-Frequency Counter .	Set	1	
07-03-26202	-Power Meter .	Set	1	
07-03-26203	-PCM Multiplex Tester .	Set	1	
07-03-26204	-RF Sweep Generator .	Set	0	
07-03-26205	-VSWR Test Set.	Set	0	
07-03-26206	-Scalar Network Analyzer .	Set	0	
07-03-26207	-RF Spectrum Analyzer.	Set	0	
07-03-26208	-SDH Analyzer for STM-1.	Set	0	
07-03-26209	-TX / RX MW Link Analyzer .	Set	0	
07-03-26210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-26211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-26212	-Vedio Test Set.	Set	0	
07-03-26213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-26214	-Cables & Adapters.	Set	1	
07-03-26215	-Waveguide / Coax. Adapters.	Set	1	
07-03-26216	-Documentation.	Set	1	
07-03-26219	Specific Tools	Lot	0	
07-03-26220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-26221	-Specific Maintenance Tools	Lot	0	
07-03-26222	-Station Tools	Lot	1	
07-03-26223	-Special Tools for waveguide.	Lot	1	
07-03-26224	-Installation Tools.	Lot	1	
07-03-26229	Services	Lot	1	
07-03-26230	-Factory Training Abroad.	Trainee	0	
07-03-26231	-Training In Iraq.	Trainee	0	
07-03-26232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector :South Digital Microwave Link Baghdad-Basra- and Kut-Nasriya

Site - Name : Faw Ex.

Code	Item Description	Unit	Qty	Compleme tary Items
07-03-27100	SDH Microwave Radio Equipment	Lot	1	
07-03-27101	-STM-1,11GHZ (1+1) Radio terminal	Set	1	
07-03-27102	-128 QAM Modems Modules.	Set	2	
07-03-27103	-Protection Switch.	Set	1	
07-03-27104	-Engineering order wire channel.	Set	1	
07-03-27105	-2Mb/s auxiliary traffic.	Set	1	
07-03-27106	-Interface to central Network management.	Set	1	
07-03-27107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-27108	-Rack with 48V. d/c unit (duplicated).	Set	2	
07-03-27109	-Installation & Maintenance tools & materials.	lot	1	
07-03-27110	-Spare parts & spare units.	lot	1	
07-03-27111	-Documentation.	lot	1	
07-03-27112	-Microwave Tower Galvanized steel self suboorted 70m high microwave Tower all complet with earthing, Painting .lighting fightning subsystem (concrete fowdatwns)			
07-03-27119	Microwave Antennas	Lot	1	
07-03-27120	-Parabolic Dish (1.8-2.4m. diameter).	Set	1	
07-03-27121	-Antenna Radiation Element with (1 / 2)Ports.	Set	1	
07-03-27122	-Connector Flanges.	Set	1	
07-03-27123	-Tower Attachment.	Set	1	
07-03-27124	-Installation & Maintenance tools & materials.	Set	1	
07-03-27129	Microwave Feeders	Lot	1	
07-03-27130	-Elliptical waveguide for 11GHZ band .	Meter	100	
07-03-27131	-Medium capacity dehydrator.	Unit	1	
07-03-27132	-Pressure Window.	Unit	1	
07-03-27133	-Fixture clamps.	Set	1	
07-03-27134	-Earthing Kits.	Set	1	
07-03-27135	-Installation materials & tools.	lot	1	
07-03-27136	-Documentation.	Set	1	
07-03-27139	DC Power Plant	Lot	1	
07-03-27142	-Modular switched rectifier system 48V / 30Ampere	Set		
07-03-27141	module (2+1) configuration.		1	
07-03-27142	-48V, 200Ah Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-27143	-Cabinet.	Set	1	
07-03-27144	-Installation materials , cables, tools.	Set	2	
	-Documentation.	Set	1	
			1	
07-03-27149	Air Conditioners	Lot	1	
07-03-27150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-27151	-Piping & installation materials & fixtures.	Set	2	
07-03-27152	-Spare parts.	Set	2	
07-03-27153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-27159	Diesel Engine Generator	Lot	1	
07-03-27160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-27161	-Daily Fuel Tank.	Set	1	
07-03-27162	-Fan.	Set	1	
07-03-27163	-Piping.	Set	1	
07-03-27164	-Control cubicle & Alarms.	Set	1	
07-03-27165	-Installation Materials & Tools.	lot	1	
07-03-27166	-Spare parts & PCB's.	Set	1	
07-03-27167	-Documentation.	Set	1	
07-03-27169	SDH Multiplex Equipment	Lot	1	
07-03-27170	-STM-4 Multiplexer Subrack with redundant common units	Set	0	
07-03-27171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-27172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	1	
07-03-27173	-Access & Connection Modules.	Set	1	
07-03-27172	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	1	
07-03-27175	-Full Matrix (duplicated).	Unit	1	
07-03-27176	-Auxiliary /Engineering order wire.	Set	1	
07-03-27177	-Telephone Handset.	Set	1	
07-03-27178	-Installation Materials & Tools.	Lot	0	
07-03-27179	-Racks with power supply unit (duplicated)and cable head.	Set	1	
07-03-27180	-Digital Distribution Frames.	Set	1	
07-03-27181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	2	
07-03-27182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	1	
07-03-27183	-Spare parts & spare units.	Lot	1	
07-03-27184	-Installation materials & tools.	Lot	1	
07-03-27182	-Documentation.	Set	1	
07-03-27189	Network Management Equipment	Lot	0	
07-03-27190	-Central Network Management System platform(Hard ware)	Lot	0	
	-Central Network Management System software packages.	Set	0	
07-03-27191	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-27192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-27193	-Installation Materials & Tools.	Lot	1	
07-03-27194	-Documentation..	Set	0	
07-03-27195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-27119	Test Instruments	Lot	1	
07-03-27200	-Digital Multimeter.	Set	1	
07-03-27201	-Frequency Counter .	Set	1	
07-03-27202	-Power Meter .	Set	1	
07-03-27203	-PCM Multiplex Tester .	Set	1	
07-03-27204	-RF Sweep Generator .	Set	0	
07-03-27205	-VSWR Test Set.	Set	0	
07-03-27206	-Scalar Network Analyzer .	Set	0	
07-03-27207	-RF Spectrum Analyzer.	Set	0	
07-03-27208	-SDH Analyzer for STM-1.	Set	0	
07-03-27209	-TX / RX MW Link Analyzer .	Set	0	
07-03-27210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-27211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-27212	-Vedio Test Set.	Set	0	
07-03-27213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-27214	-Cables & Adapters.	Set	1	
07-03-27215	-Waveguide / Coax. Adapters.	Set	1	
07-03-27216	-Documentation.	Set	1	
07-03-27219	Specific Tools	Lot	0	
07-03-27220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-27221	-Specific Maintenance Tools	Lot	0	
07-03-27222	-Station Tools	Lot	1	
07-03-27223	-Special Tools for waveguide.	Lot	1	
07-03-27224	-Installation Tools.	Lot	1	
07-03-27229	Services	Lot	1	
07-03-27230	-Factory Training Abroad.	Trainee	0	
07-03-27231	-Training In Iraq.	Trainee	0	
07-03-27232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector: South Digital Microwave Link Baghdad-Basra- and Kut-Nasriya

Site - Name : AMARA T

Code	Item Description	Unit	Qty	Complementary Items
07-03-28100	SDH Microwave Radio Equipment	Lot	1	
07-03-28101	-STM-1, 6GHZ (3+1), (2+1) 11GHZ Radio Terminal With Frequency & Space Diversity all complete.	Set	3	
07-03-28102	-128 QAM Modems Modules.	Set	11	
07-03-28103	-Protection Switch.	Set	3	
07-03-28104	-Engineering order wire channel.	Set	2	
07-03-28105	-2Mb/s auxiliary traffic.	Set	3	
07-03-28106	-Interface to central Network management.	Set	3	
07-03-28107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-28108	-Rack with 48V. d/c unit (duplicated).	Set	4	
07-03-28109	-Installation & Maintenance tools & materials.	Lot	1	
07-03-28110	-Spare parts & spare units.	lot	1	
07-03-28111	-Documentation.	Set	1	
07-03-28119	Microwave Antennas	Lot	1	
07-03-28120	-Parabolic Dish (2.4-3.7m. diameter).	Set	5	
07-03-28121	-Antenna Radiation Element with (1 / 2) Ports.	Set	5	
07-03-28122	-Connector Flanges.	Set	5	
07-03-28123	-Tower Attachment.	Set	5	
07-03-28124	-Installation & Maintenance tools & materials.	Set	5	
07-03-28129	Microwave Feeders	Lot	1	
07-03-28130	-Elliptical waveguide for 8/6 GHZ band .	Meter	500	
07-03-28131	-Medium capacity dehydrator.	Unit	1	
07-03-28132	-Pressure Window.	Unit	5	
07-03-28133	-Fixture clamps.	Set		
07-03-28134	-Earthing Kits.	Set	5	
07-03-28135	-Installation materials & tools.	Set	5	
07-03-28136	-Documentation.	Set	2	
			1	
07-03-28139	DC Power Plant	Lot	1	
07-03-28142	-Modular switched rectifier system 48V / 30Ampere module (4+1) configuration.	Set	1	
07-03-28141	-48V, 300Ah Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-28142	-Cabinet.	Set	1	
07-03-28143	-Installation materials , cables, tools.	Set	2	
07-03-28144	-Documentation.	Set	1	
			1	
07-03-28149	Air Conditioners	Lot	1	
07-03-28150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-28151	-Piping & installation materials & fixtures.	Set	2	
07-03-28152	-Spare parts.	Set	2	
07-03-28153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-28159	Diesel Engine Generator	Lot	1	
07-03-28160	-Capacity 50 KVA, Dual Set.	Set		
07-03-28161	-Daily Fuel Tank.	Set	1	
07-03-28162	-Fan.	Set	1	
07-03-28163	-Piping.	Set	1	
07-03-28164	-Control cubicle & Alarms.	Set	1	
07-03-28165	-Installation Materials & Tools.	lot	1	
07-03-28166	-Spare parts & PCB's.	lot	1	
07-03-28167	-Documentation.	Set	1	
			1	
07-03-28169	SDH Multiplex Equipment	Lot	1	
07-03-28170	-STM-4 Mutliplexer Subrack with redundant common units	Set	2	
07-03-28171	-STM-1 Multiplex Subrack with redundant common units	Set		
07-03-28172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	1	
			3	
07-03-28173	-Access & Connection Modules.	Set		
07-03-28174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	2	
			7	
07-03-28175	-Full Matrix (duplicated).	Unit		
07-03-28176	-Auxiliary /Engineering order wire.	Set	4	
07-03-28177	-Telephone Handset.	Lot	1	
07-03-28178	-Installation Materials & Tools.	Lot	1	
07-03-28179	-Racks with power supply unit (duplicated)and cable head.	Set	2	
07-03-28180	-Digital Distribution Frames.	Set	4	
07-03-28181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	4	
			1	
07-03-28182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	2	
07-03-28183	-Spare parts & spare units.	Lot		
07-03-28184	-Installation materials & tools.	Lot	2	
07-03-28182	-Documentation.	Set	2	
			1	
07-03-28189	Network Management Equipment	Lot	1	
07-03-28190	-Central Network Management System platform(Hard ware)	Lot	0	
	-Central Network Management System software packages.	Set	0	
07-03-28191	-Local Network Management Equipment (craft terminals).	Lot	0	
07-03-28192	-Mediation , Interface, and connection cards &modules.	Lot	0	
07-03-28193	-Installation Materials & Tools.	Lot	0	
07-03-28194	-Documentation..	Set	0	
07-03-28195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-28119	Test Instruments	Lot	1	
07-03-28200	-Digital Multimeter.	Set	1	
07-03-28201	-Frequency Counter .	Set	1	
07-03-28202	-Power Meter .	Set	1	
07-03-28203	-PCM Multiplex Tester .	Set	1	
07-03-28204	-RF Sweep Generator .	Set	0	
07-03-28205	-VSWR Test Set.	Set	0	
07-03-28206	-Scalar Network Analyzer .	Set	0	
07-03-28207	-RF Spectrum Analyzer.	Set	0	
07-03-28208	-SDH Analyzer for STM-1.	Set	0	
07-03-28209	-TX / RX MW Link Analyzer .	Set	0	
07-03-28210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-28211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-28212	-Vedio Test Set.	Set	1	
07-03-28213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-28214	-Cables & Adapters.	Set	1	
07-03-28215	-Waveguide / Coax. Adapters.	Set	1	
07-03-28216	-Documentation.	Set	1	
07-03-28219	Specific Tools	Lot	1	
07-03-28220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-28221	-Specific Maintenance Tools	Lot	1	
07-03-28222	-Station Tools	Lot	1	
07-03-28223	-Special Tools for waveguide.	Lot	1	
07-03-28224	-Installation Tools.	Lot	1	
07-03-28229	Services	Lot	1	
07-03-28230	-Factory Training Abroad.	Trainee	1	
07-03-28231	-Training In Iraq.	Trainee	3	
07-03-28232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra- and Kut-Nasriya

Site - Name : SHATRA

Code	Item Description	Unit	Qty	Complemetary Items
07-03-29100	SDH Microwave Radio Equipment	Lot	1	
07-03-29101	-STM-1, 6GHZ (3+1)&(1+1),11GHZ, Radio Terminal	Set	2	
07-03-29102	With Frequency & Space Diversity all complete.			
07-03-29102	-128 QAM Modems Modules.	Set	10	
07-03-29103	-Protection Switch.	Set	3	
07-03-29104	-Engineering order wire channel.	Set	2	
07-03-29105	-2Mb/s auxiliary traffic.	Set	2	
07-03-29106	-Interface to central Network management.	Set	2	
07-03-29107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-29108	-Rack with 48V. d/c unit (duplicated).	Set	3	
07-03-29109	-Installation & Maintenance tools & materials.	lot	1	
07-03-29110	-Spare parts & spare units.	lot	1	
07-03-29111	-Documentation.	Set	1	
07-03-29119	Microwave Antennas	Lot	1	
07-03-29120	-Parabolic Dish (3 -3.7m. diameter).	Set	4	
07-03-29121	-Antenna Radiation Element with (1 / 2)Ports.	Set	4	
07-03-29122	-Connector Flanges.	Set	4	
07-03-29123	-Tower Attachment.	Set	4	
07-03-29124	-Installation & Maintenance tools & materials.	Set	4	
07-03-29129	Microwave Feeders	Lot	1	
07-03-29130	-Elliptical waveguide for 11&6 GHZ band .	Meter	500	
07-03-29131	-Medium capacity dehydrator.	Unit	1	
07-03-29132	-Pressure Window.	Unit	5	
07-03-29133	-Fixture clamps.	Set	5	
07-03-29134	-Earthing Kits.	Set	5	
07-03-29135	-Installation materials & tools.	Set	5	
07-03-29136	-Documentation.	Set	1	
07-03-29139	DC Power Plant	Lot	1	
07-03-29140	-Modular switched rectifier system 48V / 30Ampere	Set		
07-03-29141	module (3+1) configuration.		1	
07-03-29141	-48V, 300Ah Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-29142	-Cabinet.	Set	1	
07-03-29143	-Installation materials , cables, tools.	Set	2	
07-03-29144	-Documentation.	Set	1	
07-03-29149	Air Conditioners	Lot	1	
07-03-29150	-Duplicated 18000 / 24000 BTU Unit.	Set	2	
07-03-29151	-Piping & installation materials & fixtures.	Set	2	
07-03-29152	-Spare parts.	Set	2	
07-03-29153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complemet ary Items
07-03-29159	Diesel Engine Generator	Lot	1	
07-03-29160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-29161	-Daily Fuel Tank.	Set	1	
07-03-29162	-Fan.	Set	1	
07-03-29163	-Piping.	Set	1	
07-03-29164	-Control cubicle & Alarms.	Set	1	
07-03-29165	-Installation Materials & Tools.	Set	1	
07-03-29166	-Spare parts & PCB's.	Set	1	
07-03-29167	-Documentation.	Set	1	
07-03-29169	SDH Multiplex Equipment	Lot	1	
07-03-29170	-STM-4 Mutliplexer Subrack with redundant common units	Set	1	
07-03-29171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-29172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	4	
07-03-29173	-Access & Connection Modules.	Set	3	
07-03-29174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP containd in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	1	
07-03-29175	-Full Matrix (duplicated).	Unit	3	
07-03-29176	-Auxiliary /Engineering order wire.	Set	1	
07-03-29177	-Telephone Handset.	Lot	1	
07-03-29178	-Installation Materials & Tools.	Lot	1	
07-03-29179	-Racks with power supply unit (duplicated)and cable head.	Set	4	
07-03-29180	-Digital Distribution Frames.	Set	4	
07-03-29181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	3	
07-03-29182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	1	
07-03-29183	-Spare parts & spare units.	Lot	1	
07-03-29184	-Installation materials & tools.	Lot	1	
07-03-29185	-Documentation.	Set	1	
07-03-29189	Network Management Equipment	Lot	1	
07-03-29190	-Central Network Management System platform(Hard ware)	Lot Set	0 0	
07-03-29191	-Central Network Management System software packages.	Lot	1	
07-03-29192	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-29193	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-29194	-Installation Materials & Tools.	Set	1	
07-03-29195	-Documentation..			

Code	Item Description	Unit	Qty	Complemetary Items
07-03-29119	Test Instruments	Lot	1	
07-03-29200	-Digital Multimeter.	Set	1	
07-03-29201	-Frequency Counter .	Set	0	
07-03-29202	-Power Meter .	Set	0	
07-03-29203	-PCM Multiplex Tester .	Set	1	
07-03-29204	-RF Sweep Generator .	Set	0	
07-03-29205	-VSWR Test Set.	Set	0	
07-03-29206	-Scalar Network Analyzer .	Set	0	
07-03-29207	-RF Spectrum Analyzer.	Set	0	
07-03-29208	-SDH Analyzer for STM-1.	Set	0	
07-03-29209	-TX / RX MW Link Analyzer .	Set	0	
07-03-29210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-29211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-29212	-Vedio Test Set.	Set	0	
07-03-29213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	0	
07-03-29214	-Cables & Adapters.	Set	1	
07-03-29215	-Waveguide / Coax. Adapters.	Set	1	
07-03-29216	-Documentation.	Set	1	
07-03-29219	Specific Tools	Lot	1	
07-03-29220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-29221	-Specific Maintenance Tools	Lot	1	
07-03-29222	-Station Tools	Lot	1	
07-03-29223	-Special Tools for waveguide.	Lot	1	
07-03-29224	-Installation Tools.	Lot	1	
07-03-29229	Services	Lot	1	
07-03-29230	-Factory Training Abroad.	Trainee	1	
07-03-29231	-Training In Iraq.	Trainee	3	
07-03-29232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name : RIFAI

Code	Item Description	Unit	Qty	Complemetary Items
07-03-30100	SDH Microwave Radio Equipment	Lot	1	
07-03-30101	-STM-1, 6GHZ (3+1), (2+1) 11GHZRadio Terminal With Frequency & Space Diversity all complete.	Set	3	
07-03-30102	-128 QAM Modems Modules.	Set	11	
07-03-30103	-Protection Switch.	Set	3	
07-03-30104	-Engineering order wire channel.	Set	2	
07-03-30105	-2Mb/s auxiliary traffic.	Set	3	
07-03-30106	-Interface to central Network management.	Set	3	
07-03-30107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-30108	-Rack with 48V. d/c unit (duplicated).	Set	4	
07-03-30109	-Installation & Maintenance tools & materials.	Lot	1	
07-03-30110	-Spare parts & spare units.	lot	1	
07-03-30111	-Documentation.	Set	1	
07-03-30119	Microwave Antennas	Lot	1	
07-03-30120	-Parabolic Dish (2.4-3.7m. diameter).	Set	5	
07-03-30121	-Antenna Radiation Element with (1 / 2)Ports.	Set	5	
07-03-30122	-Connector Flanges.	Set	5	
07-03-30123	-Tower Attachment.	Set	5	
07-03-30124	-Installation & Maintenance tools & materials.	Set	5	
07-03-30129	Microwave Feeders	Lot	1	
07-03-30130	-Elliptical waveguide for 8/6 GHZ band .	Meter	500	
07-03-30131	-Medium capacity dehydrator.	Unit	1	
07-03-30132	-Pressure Window.	Unit	5	
07-03-30133	-Fixture clamps.	Set	5	
07-03-30134	-Earthing Kits.	Set	5	
07-03-30135	-Installation materials & tools.	Set	2	
07-03-30136	-Documentation.	Set	1	
07-03-30139	DC Power Plant	Lot	1	
07-03-30143	-Modular switched rectifier system 48V / 30Ampere module (4+1) configuration.	Set	1	
07-03-30141	-48V, 300Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-03-30142	-Cabinet.	Set	1	
07-03-30143	-Installation materials , cables, tools.	Set	2	
07-03-30144	-Documentation.	Set	1	
07-03-30149	Air Conditioners	Lot	1	
07-03-30150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-30151	-Piping & installation materials & fixtures.	Set	2	
07-03-30152	-Spare parts.	Set	2	
07-03-30153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-30159	Diesel Engine Generator	Lot	1	
07-03-30160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-30161	-Daily Fuel Tank.	Set	1	
07-03-30162	-Fan.	Set	1	
07-03-30163	-Piping.	Set	1	
07-03-30164	-Control cubicle & Alarms.	Set	1	
07-03-30165	-Installation Materials & Tools.	lot	1	
07-03-30166	-Spare parts & PCB's.	lot	1	
07-03-30167	-Documentation.	Set	1	
07-03-30169	SDH Multiplex Equipment	Lot	1	
07-03-30170	-STM-4 Mutlplexer Subrack with redundant common units	Set	2	
07-03-30171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-30172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	3	
07-03-30173	-Access & Connection Modules.	Set	2	
07-03-30174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	7	
07-03-30175	-Full Matrix (duplicated).	Unit	4	
07-03-30176	-Auxiliary /Engineering order wire.	Set	1	
07-03-30177	-Telephone Handset.	Lot	1	
07-03-30178	-Installation Materials & Tools.	Lot	2	
07-03-30179	-Racks with power supply unit (duplicated)and cable head.	Set	4	
07-03-30180	-Digital Distribution Frames.	Set	4	
07-03-30183	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	1	
07-03-30182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	2	
07-03-30183	-Spare parts & spare units.	Lot	2	
07-03-30184	-Installation materials & tools.	Lot	2	
07-03-30185	-Documentation.	Set	1	
07-03-30189	Network Management Equipment	Lot	1	
07-03-30190	-Central Network Management System platform(Hardware)	Lot	0	
		Set	0	
07-03-30191	-Central Network Management System software packages.	Lot	0	
07-03-30192	-Local Network Management Equipment (craft terminals).	Lot	0	
07-03-30193	-Mediation , Interface, and connection cards &modules.	Lot	0	
07-03-30194	-Installation Materials & Tools.	Set	0	
07-03-30195	-Documentation..			

Code	Item Description	Unit	Qty	Complementary Items
07-03-30119	Test Instruments	Lot	1	
07-03-30200	-Digital Multimeter.	Set	1	
07-03-30201	-Frequency Counter .	Set	1	
07-03-30202	-Power Meter .	Set	1	
07-03-30203	-PCM Multiplex Tester .	Set	1	
07-03-30204	-RF Sweep Generator .	Set	0	
07-03-30205	-VSWR Test Set.	Set	0	
07-03-30206	-Scalar Network Analyzer .	Set	0	
07-03-30207	-RF Spectrum Analyzer.	Set	0	
07-03-30208	-SDH Analyzer for STM-1.	Set	0	
07-03-30209	-TX / RX MW Link Analyzer .	Set	0	
07-03-30210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-30211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-30212	-Vedio Test Set.	Set	1	
07-03-30213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-30214	-Cables & Adapters.	Set	1	
07-03-30215	-Waveguide / Coax. Adapters.	Set	1	
07-03-30216	-Documentation.	Set	1	
07-03-30219	Specific Tools	Lot	1	
07-03-30220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-30221	-Specific Maintenance Tools	Lot	1	
07-03-30222	-Station Tools	Lot	1	
07-03-30223	-Special Tools for waveguide.	Lot	1	
07-03-30224	-Installation Tools.	Lot	1	
07-03-30229	Services	Lot	1	
07-03-30230	-Factory Training Abroad.	Trainee	1	
07-03-30231	-Training In Iraq.	Trainee	3	
07-03-30232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name : HAIY

Code	Item Description	Unit	Qty	Complemetary Items
07-03-31100	SDH Microwave Radio Equipment	Lot	1	
07-03-31101	-STM-1, 6GHZ (3+1), (2+1) 11GHZRadio Terminal With Frequency & Space Diversity all complete.	Set	3	
07-03-31102	-128 QAM Modems Modules.	Set	11	
07-03-31103	-Protection Switch.	Set	3	
07-03-31104	-Engineering order wire channel.	Set	2	
07-03-31105	-2Mb/s auxiliary traffic.	Set	3	
07-03-31106	-Interface to central Network management.	Set	3	
07-03-31107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-31108	-Rack with 48V. d/c unit (duplicated).	Set	4	
07-03-31109	-Installation & Maintenance tools & materials.	Lot	1	
07-03-31110	-Spare parts & spare units.	lot	1	
07-03-31111	-Documentation.	Set	1	
07-03-31119	Microwave Antennas	Lot	1	
07-03-31120	-Parabolic Dish (2.4-3.7m. diameter).	Set	5	
07-03-31121	-Antenna Radiation Element with (1 / 2)Ports.	Set	5	
07-03-31122	-Connector Flanges.	Set	5	
07-03-31123	-Tower Attachment.	Set	5	
07-03-31124	-Installation & Maintenance tools & materials.	Set	5	
07-03-31129	Microwave Feeders	Lot	1	
07-03-31130	-Elliptical waveguide for 8/6 GHZ band .	Meter	500	
07-03-31131	-Medium capacity dehydrator.	Unit	1	
07-03-31132	-Pressure Window.	Unit	5	
07-03-31133	-Fixture clamps.	Set	5	
07-03-31134	-Earthing Kits.	Set	5	
07-03-31135	-Installation materials & tools.	Set	2	
07-03-31136	-Documentation.	Set	1	
07-03-31139	DC Power Plant	Lot	1	
07-03-31140	-Modular switched rectifier system 48V / 30Ampere module (4+1) configuration.	Set	1	
07-03-31141	-48V, 300Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-03-31142	-Cabinet.	Set	1	
07-03-31143	-Installation materials , cables, tools.	Set	2	
07-03-31144	-Documentation.	Set	1	
07-03-31149	Air Conditioners	Lot	1	
07-03-31150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-31151	-Piping & installation materials & fixtures.	Set	2	
07-03-31152	-Spare parts.	Set	2	
07-03-31153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complemet ary Items
07-03-31159	Diesel Engine Generator	Lot	1	
07-03-31160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-31161	-Daily Fuel Tank.	Set	1	
07-03-31162	-Fan.	Set	1	
07-03-31163	-Piping.	Set	1	
07-03-31164	-Control cubicle & Alarms.	Set	1	
07-03-31165	-Installation Materials & Tools.	lot	1	
07-03-31166	-Spare parts & PCB's.	lot	1	
07-03-31167	-Documentation.	Set	1	
07-03-31169	SDH Multiplex Equipment	Lot	1	
07-03-31170	-STM-4 Multiplexer Subrack with redundant common units	Set	2	
07-03-31171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-31172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	3	
07-03-31173	-Access & Connection Modules.	Set	2	
07-03-31174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP containd in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	7	
07-03-31175	-Full Matrix (duplicated).	Unit	4	
07-03-31176	-Auxiliary /Engineering order wire.	Set	1	
07-03-31177	-Telephone Handset.	Lot	1	
07-03-31178	-Installation Materials & Tools.	Lot	2	
07-03-31179	-Racks with power supply unit (duplicated)and cable head.	Set	4	
07-03-31180	-Digital Distribution Frames.	Set	4	
07-03-31181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	1	
07-03-31182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	2	
07-03-31183	-Spare parts & spare units.	Lot	2	
07-03-31184	-Installation materials & tools.	Lot	2	
07-03-31185	-Documentation.	Set	1	
07-03-31189	Network Management Equipment	Lot	1	
07-03-31190	-Central Network Management System platform(Hard ware)	Lot	0	
	-Central Network Management System software packages.	Set	0	
07-03-31191	-Local Network Management Equipment (craft terminals).	Lot	0	
07-03-31192	-Mediation , Interface, and connection cards &modules.	Lot	0	
07-03-31193	-Installation Materials & Tools.	Lot	0	
07-03-31194	-Documentation..	Set	0	
07-03-31195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-31119	Test Instruments	Lot	1	
07-03-31200	-Digital Multimeter.	Set	1	
07-03-31201	-Frequency Counter .	Set	1	
07-03-31202	-Power Meter .	Set	1	
07-03-31203	-PCM Multiplex Tester .	Set	1	
07-03-31204	-RF Sweep Generator .	Set	0	
07-03-31205	-VSWR Test Set.	Set	0	
07-03-31206	-Scalar Network Analyzer .	Set	0	
07-03-31207	-RF Spectrum Analyzer.	Set	0	
07-03-31208	-SDH Analyzer for STM-1.	Set	0	
07-03-31209	-TX / RX MW Link Analyzer .	Set	0	
07-03-31210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-31211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-31212	-Vedio Test Set.	Set	1	
07-03-31213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-31214	-Cables & Adapters.	Set	1	
07-03-31215	-Waveguide / Coax. Adapters.	Set	1	
07-03-31216	-Documentation.	Set	1	
07-03-31219	Specific Tools	Lot	1	
07-03-31220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-31221	-Specific Maintenance Tools	Lot	1	
07-03-31222	-Station Tools	Lot	1	
07-03-31223	-Special Tools for waveguide.	Lot	1	
07-03-31224	-Installation Tools.	Lot	1	
07-03-31229	Services	Lot	1	
07-03-31230	-Factory Training Abroad.	Trainee	1	
07-03-31231	-Training In Iraq.	Trainee	3	
07-03-31232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name : Q.SAKAR

Code	Item Description	Unit	Qty	Complemetary Items
07-03-32100	SDH Microwave Radio Equipment	Lot	1	
07-03-32101	-STM-1, 6GHZ (3+1), (2+1) 11GHZRadio Terminal With Frequency & Space Diversity all complete.	Set	3	
07-03-32102	-128 QAM Modems Modules.	Set	11	
07-03-32103	-Protection Switch.	Set	3	
07-03-32104	-Engineering order wire channel.	Set	2	
07-03-32105	-2Mb/s auxiliary traffic.	Set	3	
07-03-32106	-Interface to central Network management.	Set	3	
07-03-32107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-32108	-Rack with 48V. d/c unit (duplicated).	Set	4	
07-03-32109	-Installation & Maintenance tools & materials.	Lot	1	
07-03-32110	-Spare parts & spare units.	lot	1	
07-03-32111	-Documentation.	Set	1	
07-03-32119	Microwave Antennas	Lot	1	
07-03-32120	-Parabolic Dish (2.4-3.7m. diameter).	Set	5	
07-03-32121	-Antenna Radiation Element with (1 / 2)Ports.	Set	5	
07-03-32122	-Connector Flanges.	Set	5	
07-03-32123	-Tower Attachment.	Set	5	
07-03-32124	-Installation & Maintenance tools & materials.	Set	5	
07-03-32129	Microwave Feeders	Lot	1	
07-03-32130	-Elliptical waveguide for 8/6 GHZ band .	Meter	500	
07-03-32131	-Medium capacity dehydrator.	Unit	1	
07-03-32132	-Pressure Window.	Unit	5	
07-03-32133	-Fixture clamps.	Set	5	
07-03-32134	-Earthing Kits.	Set	5	
07-03-32135	-Installation materials & tools.	Set	2	
07-03-32136	-Documentation.	Set	1	
07-03-32139	DC Power Plant	Lot	1	
07-03-32142	-Modular switched rectifier system 48V / 30Ampere module (4+1) configuration.	Set	1	
07-03-32141	-48V, 300Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-03-32142	-Cabinet.	Set	1	
07-03-32143	-Installation materials , cables, tools.	Set	2	
07-03-32144	-Documentation.	Set	1	
07-03-32149	Air Conditioners	Lot	1	
07-03-32150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-32151	-Piping & installation materials & fixtures.	Set	2	
07-03-32152	-Spare parts.	Set	2	
07-03-32153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-32159	Diesel Engine Generator	Lot	1	
07-03-32160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-32161	-Daily Fuel Tank.	Set	1	
07-03-32162	-Fan.	Set	1	
07-03-32163	-Piping.	Set	1	
07-03-32164	-Control cubicle & Alarms.	Set	1	
07-03-32165	-Installation Materials & Tools.	lot	1	
07-03-32166	-Spare parts & PCB's.	lot	1	
07-03-32167	-Documentation.	Set	1	
07-03-32169	SDH Multiplex Equipment	Lot	1	
07-03-32170	-STM-4 Mutliplexer Subrack with redundant common units	Set	2	
07-03-32171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-32172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	3	
07-03-32173	-Access & Connection Modules.	Set	2	
07-03-32173	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	7	
07-03-32175	-Full Matrix (duplicated).	Unit	4	
07-03-32176	-Auxiliary /Engineering order wire.	Set	1	
07-03-32177	-Telephone Handset.	Lot	1	
07-03-32178	-Installation Materials & Tools.	Lot	2	
07-03-32179	-Racks with power supply unit (duplicated)and cable head.	Set	4	
07-03-32180	-Digital Distribution Frames.	Set	4	
07-03-32183	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	1	
07-03-32182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	2	
07-03-32183	-Spare parts & spare units.	Lot	2	
07-03-32184	-Installation materials & tools.	Lot	2	
07-03-32185	-Documentation.	Set	1	
07-03-32189	Network Management Equipment	Lot	1	
07-03-32190	-Central Network Management System platform(Hardware)	Lot	0	
		Set	0	
07-03-32291	-Central Network Management System software packages.	Lot	0	
07-03-32292	-Local Network Management Equipment (craft terminals).	Lot	0	
07-03-32293	-Mediation , Interface, and connection cards &modules.	Lot	0	
07-03-32294	-Installation Materials & Tools.	Set	0	
07-03-32195	-Documentation..			

Code	Item Description	Unit	Qty	Complementary Items
07-03-32119	Test Instruments	Lot	1	
07-03-32200	-Digital Multimeter.	Set	1	
07-03-32201	-Frequency Counter .	Set	1	
07-03-32202	-Power Meter .	Set	1	
07-03-32203	-PCM Multiplex Tester .	Set	1	
07-03-32204	-RF Sweep Generator .	Set	0	
07-03-32205	-VSWR Test Set.	Set	0	
07-03-32206	-Scalar Network Analyzer .	Set	0	
07-03-32207	-RF Spectrum Analyzer.	Set	0	
07-03-32208	-SDH Analyzer for STM-1.	Set	0	
07-03-32209	-TX / RX MW Link Analyzer .	Set	0	
07-03-32210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-32211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-32212	-Vedio Test Set.	Set	1	
07-03-32213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-32214	-Cables & Adapters.	Set	1	
07-03-32215	-Waveguide / Coax. Adapters.	Set	1	
07-03-32216	-Documentation.	Set	1	
07-03-32219	Specific Tools	Lot	1	
07-03-32220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-32221	-Specific Maintenance Tools	Lot	1	
07-03-32222	-Station Tools	Lot	1	
07-03-32223	-Special Tools for waveguide.	Lot	1	
07-03-32224	-Installation Tools.	Lot	1	
07-03-32229	Services	Lot	1	
07-03-32230	-Factory Training Abroad.	Trainee	1	
07-03-32231	-Training In Iraq.	Trainee	3	
07-03-32232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name : NASRIYA-Ex.

Code	Item Description	Unit	Qty	Complemetary Items
07-03-33100	SDH Microwave Radio Equipment	Lot	1	
07-03-33101	-STM-1, 6GHZ (3+1), (2+1) 11GHZRadio Terminal With Frequency & Space Diversity all complete.	Set	3	
07-03-33102	-128 QAM Modems Modules.	Set	11	
07-03-33103	-Protection Switch.	Set	3	
07-03-33104	-Engineering order wire channel.	Set	2	
07-03-33105	-2Mb/s auxiliary traffic.	Set	3	
07-03-33106	-Interface to central Network management.	Set	3	
07-03-33107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-33108	-Rack with 48V. d/c unit (duplicated).	Set	4	
07-03-33109	-Installation & Maintenance tools & materials.	Lot	1	
07-03-33110	-Spare parts & spare units.	lot	1	
07-03-33111	-Documentation.	Set	1	
07-03-33119	Microwave Antennas	Lot	1	
07-03-33120	-Parabolic Dish (2.4-3.7m. diameter).	Set	5	
07-03-33121	-Antenna Radiation Element with (1 / 2)Ports.	Set	5	
07-03-33122	-Connector Flanges.	Set	5	
07-03-33123	-Tower Attachment.	Set	5	
07-03-33124	-Installation & Maintenance tools & materials.	Set	5	
07-03-33129	Microwave Feeders	Lot	1	
07-03-33130	-Elliptical waveguide for 8/6 GHZ band .	Meter	500	
07-03-33131	-Medium capacity dehydrator.	Unit	1	
07-03-33132	-Pressure Window.	Unit	5	
07-03-33133	-Fixture clamps.	Set	5	
07-03-33134	-Earthing Kits.	Set	5	
07-03-33135	-Installation materials & tools.	Set	2	
07-03-33136	-Documentation.	Set	1	
07-03-33139	DC Power Plant	Lot	1	
07-03-33140	-Modular switched rectifier system 48V / 30Ampere module (4+1) configuration.	Set	1	
07-03-33141	-48V, 300Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-03-33142	-Cabinet.	Set	1	
07-03-33143	-Installation materials , cables, tools.	Set	2	
07-03-33144	-Documentation.	Set	1	
07-03-33149	Air Conditioners	Lot	1	
07-03-33150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-33151	-Piping & installation materials & fixtures.	Set	2	
07-03-33152	-Spare parts.	Set	2	
07-03-33153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-33159	Diesel Engine Generator	Lot	1	
07-03-33160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-33161	-Daily Fuel Tank.	Set	1	
07-03-33162	-Fan.	Set	1	
07-03-33163	-Piping.	Set	1	
07-03-33164	-Control cubicle & Alarms.	Set	1	
07-03-33165	-Installation Materials & Tools.	lot	1	
07-03-33166	-Spare parts & PCB's.	lot	1	
07-03-33167	-Documentation.	Set	1	
07-03-33169	SDH Multiplex Equipment	Lot	1	
07-03-33170	-STM-4 Mutliplexer Subrack with redundant common units	Set	2	
07-03-33171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-33172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	3	
07-03-33173	-Access & Connection Modules.	Set	2	
07-03-33174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	7	
07-03-33175	-Full Matrix (duplicated).	Unit	4	
07-03-33176	-Auxiliary /Engineering order wire.	Set	1	
07-03-33177	-Telephone Handset.	Lot	1	
07-03-33178	-Installation Materials & Tools.	Lot	2	
07-03-33179	-Racks with power supply unit (duplicated)and cable head.	Set	4	
07-03-33180	-Digital Distribution Frames.	Set	4	
07-03-33181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	1	
07-03-33182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	2	
07-03-33183	-Spare parts & spare units.	Lot	2	
07-03-33184	-Installation materials & tools.	Lot	2	
07-03-33185	-Documentation.	Set	1	
07-03-33189	Network Management Equipment	Lot	1	
07-03-33190	-Central Network Management System platform(Hardware)	Lot	0	
		Set	0	
07-03-33191	-Central Network Management System software packages.	Lot	0	
07-03-33192	-Local Network Management Equipment (craft terminals).	Lot	0	
07-03-33193	-Mediation , Interface, and connection cards &modules.	Lot	0	
07-03-33194	-Installation Materials & Tools.	Set	0	
07-03-33195	-Documentation..			

Code	Item Description	Unit	Qty	Complementary Items
07-03-33119	Test Instruments	Lot	1	
07-03-33200	-Digital Multimeter.	Set	1	
07-03-33201	-Frequency Counter .	Set	1	
07-03-33202	-Power Meter .	Set	1	
07-03-33203	-PCM Multiplex Tester .	Set	1	
07-03-33204	-RF Sweep Generator .	Set	0	
07-03-33205	-VSWR Test Set.	Set	0	
07-03-33206	-Scalar Network Analyzer .	Set	0	
07-03-33207	-RF Spectrum Analyzer.	Set	0	
07-03-33208	-SDH Analyzer for STM-1.	Set	0	
07-03-33209	-TX / RX MW Link Analyzer .	Set	0	
07-03-33210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-33211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-33212	-Vedio Test Set.	Set	1	
07-03-33213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-33214	-Cables & Adapters.	Set	1	
07-03-33215	-Waveguide / Coax. Adapters.	Set	1	
07-03-33216	-Documentation.	Set	1	
07-03-33219	Specific Tools	Lot	1	
07-03-33220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-33221	-Specific Maintenance Tools	Lot	1	
07-03-33222	-Station Tools	Lot	1	
07-03-33223	-Special Tools for waveguide.	Lot	1	
07-03-33224	-Installation Tools.	Lot	1	
07-03-33229	Services	Lot	1	
07-03-33230	-Factory Training Abroad.	Trainee	1	
07-03-33231	-Training In Iraq.	Trainee	3	
07-03-33232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name : NASIR-T

Code	Item Description	Unit	Qty	Complementary Items
07-03-34100	SDH Microwave Radio Equipment	Lot	1	
07-03-34101	-STM-1, 6GHZ (3+1), (2+1) 11GHZ Radio Terminal With Frequency & Space Diversity all complete.	Set	3	
07-03-34102	-128 QAM Modems Modules.	Set	11	
07-03-34103	-Protection Switch.	Set	3	
07-03-34104	-Engineering order wire channel.	Set	2	
07-03-34105	-2Mb/s auxiliary traffic.	Set	3	
07-03-34106	-Interface to central Network management.	Set	3	
07-03-34107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-34108	-Rack with 48V. d/c unit (duplicated).	Set	4	
07-03-34109	-Installation & Maintenance tools & materials.	Lot	1	
07-03-34110	-Spare parts & spare units.	lot	1	
07-03-34111	-Documentation.	Set	1	
07-03-34119	Microwave Antennas	Lot	1	
07-03-34120	-Parabolic Dish (2.4-3.7m. diameter).	Set	5	
07-03-34121	-Antenna Radiation Element with (1 / 2) Ports.	Set	5	
07-03-34122	-Connector Flanges.	Set	5	
07-03-34123	-Tower Attachment.	Set	5	
07-03-34124	-Installation & Maintenance tools & materials.	Set	5	
07-03-34129	Microwave Feeders	Lot	1	
07-03-34130	-Elliptical waveguide for 8/6 GHZ band .	Meter	500	
07-03-34131	-Medium capacity dehydrator.	Unit	1	
07-03-34132	-Pressure Window.	Unit	5	
07-03-34133	-Fixture clamps.	Set	5	
07-03-34134	-Earthing Kits.	Set	5	
07-03-34135	-Installation materials & tools.	Set	2	
07-03-34136	-Documentation.	Set	1	
07-03-34139	DC Power Plant	Lot	1	
07-03-34140	-Modular switched rectifier system 48V / 30Ampere module (4+1) configuration.	Set	1	
07-03-34141	-48V, 300Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-03-34142	-Cabinet.	Set	1	
07-03-34143	-Installation materials , cables, tools.	Set	2	
07-03-34144	-Documentation.	Set	1	
07-03-34149	Air Conditioners	Lot	1	
07-03-34150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-34151	-Piping & installation materials & fixtures.	Set	2	
07-03-34152	-Spare parts.	Set	2	
07-03-34153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complemet ary Items
07-03-34159	Diesel Engine Generator	Lot	1	
07-03-34160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-34161	-Daily Fuel Tank.	Set	1	
07-03-34162	-Fan.	Set	1	
07-03-34163	-Piping.	Set	1	
07-03-34164	-Control cubicle & Alarms.	Set	1	
07-03-34165	-Installation Materials & Tools.	lot	1	
07-03-34166	-Spare parts & PCB's.	lot	1	
07-03-34167	-Documentation.	Set	1	
07-03-34169	SDH Multiplex Equipment	Lot	1	
07-03-34170	-STM-4 Mutlplexer Subrack with redundant common units	Set	2	
07-03-34171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-34172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	3	
07-03-34173	-Access & Connection Modules.	Set	2	
07-03-34173	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP containd in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	7	
07-03-34175	-Full Matrix (duplicated).	Unit	4	
07-03-34176	-Auxiliary /Engineering order wire.	Set	1	
07-03-34177	-Telephone Handset.	Lot	1	
07-03-34178	-Installation Materials & Tools.	Lot	2	
07-03-34179	-Racks with power supply unit (duplicated)and cable head.	Set	4	
07-03-34180	-Digital Distribution Frames.	Set	4	
07-03-34181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	1	
07-03-34182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	2	
07-03-34183	-Spare parts & spare units.	Lot	2	
07-03-34184	-Installation materials & tools.	Lot	2	
07-03-34185	-Documentation.	Set	1	
07-03-34189	Network Management Equipment	Lot	1	
07-03-34190	-Central Network Management System platform(Hard ware)	Lot Set	0 0	
07-03-34191	-Central Network Management System software packages.	Lot	0	
07-03-34192	-Local Network Management Equipment (craft terminals).	Lot	0	
07-03-34193	-Mediation , Interface, and connection cards &modules.	Lot	0	
07-03-34194	-Installation Materials & Tools.	Set	0	
07-03-34195	-Documentation..			

Code	Item Description	Unit	Qty	Complementary Items
07-03-34119	Test Instruments	Lot	1	
07-03-34200	-Digital Multimeter.	Set	1	
07-03-34201	-Frequency Counter .	Set	1	
07-03-34202	-Power Meter .	Set	1	
07-03-34203	-PCM Multiplex Tester .	Set	1	
07-03-34204	-RF Sweep Generator .	Set	0	
07-03-34205	-VSWR Test Set.	Set	0	
07-03-34206	-Scalar Network Analyzer .	Set	0	
07-03-34207	-RF Spectrum Analyzer.	Set	0	
07-03-34208	-SDH Analyzer for STM-1.	Set	0	
07-03-34209	-TX / RX MW Link Analyzer .	Set	0	
07-03-34210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-34211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-34212	-Vedio Test Set.	Set	1	
07-03-34213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-34214	-Cables & Adapters.	Set	1	
07-03-34215	-Waveguide / Coax. Adapters.	Set	1	
07-03-34216	-Documentation.	Set	1	
07-03-34219	Specific Tools	Lot	1	
07-03-34220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-34221	-Specific Maintenance Tools	Lot	1	
07-03-34222	-Station Tools	Lot	1	
07-03-34223	-Special Tools for waveguide.	Lot	1	
07-03-34224	-Installation Tools.	Lot	1	
07-03-34229	Services	Lot	1	
07-03-34230	-Factory Training Abroad.	Trainee	1	
07-03-34231	-Training In Iraq.	Trainee	3	
07-03-34232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name : SALHIYA-T

Code	Item Description	Unit	Qty	Complemet ary Items
07-03-35100	SDH Microwave Radio Equipment	Lot	1	
07-03-35101	-STM-1, 6GHZ (1+1) Radio Terminal With Frequency & Space Diversity all complete.	Set	2	
07-03-35102	-128 QAM Modems Modules.	Set	2	
07-03-35103	-Protection Switch.	Set	2	
07-03-35104	-Engineering order wire channel.	Set	1	
07-03-35105	-2Mb/s auxiliary traffic.	Set	1	
07-03-35106	-Interface to central Network management.	Set	1	
07-03-35107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-35108	-Rack with 48V. d/c unit (duplicated).	Set	1	
07-03-35109	-Installation & Maintenance tools & materials.	Lot	1	
07-03-35110	-Spare parts & spare units.	lot	1	
07-03-35111	-Documentation.	Set	1	
07-03-35119	Microwave Antennas	Lot	1	
07-03-35120	-Parabolic Dish (2.4-3.7m. diameter).	Set	2	
07-03-35121	-Antenna Radiation Element with (1 / 2)Ports.	Set	1	
07-03-35122	-Connector Flanges.	Set	1	
07-03-35123	-Tower Attachment.	Set	1	
07-03-35124	-Installation & Maintenance tools & materials.	Set	1	
07-03-35129	Microwave Feeders	Lot	1	
07-03-35130	-Elliptical waveguide for 8/6 GHZ band .	Meter	200	
07-03-35131	-Medium capacity dehydrator.	Unit	1	
07-03-35132	-Pressure Window.	Unit	1	
07-03-35133	-Fixture clamps.	Set	1	
07-03-35134	-Earthing Kits.	Set	1	
07-03-35135	-Installation materials & tools.	Set	1	
07-03-35136	-Documentation.	Set	1	
07-03-35139	DC Power Plant	Lot	1	
07-03-35140	-Modular switched rectifier system 48V / 30Ampere module (4+1) configuration.	Set	1	
07-03-35141	-48V, 120Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-03-35142	-Cabinet.	Set	1	
07-03-35143	-Installation materials , cables, tools.	Set	2	
07-03-35144	-Documentation.	Set	1	
07-03-35149	Air Conditioners	Lot	1	
07-03-35150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-35151	-Piping & installation materials & fixtures.	Set	2	
07-03-35152	-Spare parts.	Set	2	
07-03-35153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-35159	Diesel Engine Generator	Lot	1	
07-03-35160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-35161	-Daily Fuel Tank.	Set	1	
07-03-35162	-Fan.	Set	1	
07-03-35163	-Piping.	Set	1	
07-03-35164	-Control cubicle & Alarms.	Set	1	
07-03-35165	-Installation Materials & Tools.	lot	1	
07-03-35166	-Spare parts & PCB's.	lot	1	
07-03-35167	-Documentation.	Set	1	
07-03-35169	SDH Multiplex Equipment	Lot	1	
07-03-35170	-STM-4 Mutlplexer Subrack with redundant common units	Set	0	
07-03-35171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-35172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	2	
07-03-35173	-Access & Connection Modules.	Set	2	
07-03-35174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	3	
07-03-35175	-Full Matrix (duplicated).	Unit	1	
07-03-35176	-Auxiliary /Engineering order wire.	Set	1	
07-03-35177	-Telephone Handset.	Lot	1	
07-03-35178	-Installation Materials & Tools.	Lot	1	
07-03-35179	-Racks with power supply unit (duplicated)and cable head.	Set	1	
07-03-35180	-Digital Distribution Frames.	Set	1	
07-03-35181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	1	
07-03-35182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	1	
07-03-35183	-Spare parts & spare units.	Lot	1	
07-03-35184	-Installation materials & tools.	Lot	1	
07-03-35185	-Documentation.	Set	1	
07-03-35189	Network Management Equipment	Lot	1	
07-03-35190	-Central Network Management System platform(Hardware)	Lot	0	
		Set	0	
07-03-35191	-Central Network Management System software packages.	Lot	0	
07-03-35192	-Local Network Management Equipment (craft terminals).	Lot	0	
07-03-35193	-Mediation , Interface, and connection cards &modules.	Lot	0	
07-03-35194	-Installation Materials & Tools.	Set	0	
07-03-35195	-Documentation..			

Code	Item Description	Unit	Qty	Complementary Items
07-03-35119	Test Instruments	Lot	1	
07-03-35200	-Digital Multimeter.	Set	1	
07-03-35201	-Frequency Counter .	Set	1	
07-03-35202	-Power Meter .	Set	0	
07-03-35203	-PCM Multiplex Tester .	Set	1	
07-03-35204	-RF Sweep Generator .	Set	0	
07-03-35205	-VSWR Test Set.	Set	0	
07-03-35206	-Scalar Network Analyzer .	Set	0	
07-03-35207	-RF Spectrum Analyzer.	Set	0	
07-03-35208	-SDH Analyzer for STM-1.	Set	0	
07-03-35209	-TX / RX MW Link Analyzer .	Set	0	
07-03-35210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-35211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-35212	-Vedio Test Set.	Set	1	
07-03-35213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-35214	-Cables & Adapters.	Set	1	
07-03-35215	-Waveguide / Coax. Adapters.	Set	1	
07-03-35216	-Documentation.	Set	1	
07-03-35219	Specific Tools	Lot	1	
07-03-35220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-35221	-Specific Maintenance Tools	Lot	1	
07-03-35222	-Station Tools	Lot	1	
07-03-35223	-Special Tools for waveguide.	Lot	1	
07-03-35224	-Installation Tools.	Lot	1	
07-03-35229	Services	Lot	1	
07-03-35230	-Factory Training Abroad.	Trainee	1	
07-03-35231	-Training In Iraq.	Trainee	3	
07-03-35232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad-Basra and Kut-Nasriya

Site - Name : GARAF-T

Code	Item Description	Unit	Qty	Complemetary Items
07-03-36100	SDH Microwave Radio Equipment	Lot	1	
07-03-36101	-STM-1, 6GHZ (3+1), (2+1) 11GHZRadio Terminal With Frequency & Space Diversity all complete.	Set	3	
07-03-36102	-128 QAM Modems Modules.	Set	11	
07-03-36103	-Protection Switch.	Set	3	
07-03-36104	-Engineering order wire channel.	Set	2	
07-03-36105	-2Mb/s auxiliary traffic.	Set	3	
07-03-36106	-Interface to central Network management.	Set	3	
07-03-36107	-Peripherals (Lap Top PC , ETC.....)	Set	1	
07-03-36108	-Rack with 48V. d/c unit (duplicated).	Set	4	
07-03-36109	-Installation & Maintenance tools & materials.	Lot	1	
07-03-36110	-Spare parts & spare units.	lot	1	
07-03-36111	-Documentation.	Set	1	
07-03-36119	Microwave Antennas	Lot	1	
07-03-36120	-Parabolic Dish (2.4-3.7m. diameter).	Set	5	
07-03-36121	-Antenna Radiation Element with (1 / 2)Ports.	Set	5	
07-03-36122	-Connector Flanges.	Set	5	
07-03-36123	-Tower Attachment.	Set	5	
07-03-36124	-Installation & Maintenance tools & materials.	Set	5	
07-03-36129	Microwave Feeders	Lot	1	
07-03-36130	-Elliptical waveguide for 8/6 GHZ band .	Meter	500	
07-03-36131	-Medium capacity dehydrator.	Unit	1	
07-03-36132	-Pressure Window.	Unit	5	
07-03-36133	-Fixture clamps.	Set	5	
07-03-36134	-Earthing Kits.	Set	5	
07-03-36135	-Installation materials & tools.	Set	2	
07-03-36136	-Documentation.	Set	1	
07-03-36139	DC Power Plant	Lot	1	
07-03-36140	-Modular switched rectifier system 48V / 30Ampere module (4+1) configuration.	Set	1	
07-03-36141	-48V, 300Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-03-36142	-Cabinet.	Set	1	
07-03-36143	-Installation materials , cables, tools.	Set	2	
07-03-36144	-Documentation.	Set	1	
07-03-36149	Air Conditioners	Lot	1	
07-03-36150	-Duplicated 24000 BTU Unit.	Set	2	
07-03-36151	-Piping & installation materials & fixtures.	Set	2	
07-03-36152	-Spare parts.	Set	2	
07-03-36153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-36159	Diesel Engine Generator	Lot	1	
07-03-36160	-Capacity 50 KVA, Dual Set.	Set	1	
07-03-36161	-Daily Fuel Tank.	Set	1	
07-03-36162	-Fan.	Set	1	
07-03-36163	-Piping.	Set	1	
07-03-36164	-Control cubicle & Alarms.	Set	1	
07-03-36165	-Installation Materials & Tools.	lot	1	
07-03-36166	-Spare parts & PCB's.	lot	1	
07-03-36167	-Documentation.	Set	1	
07-03-36169	SDH Multiplex Equipment	Lot	1	
07-03-36170	-STM-4 Mutlplexer Subrack with redundant common units	Set	2	
07-03-36171	-STM-1 Multiplex Subrack with redundant common units	Set	1	
07-03-36172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	3	
07-03-36173	-Access & Connection Modules.	Set	2	
07-03-36173	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	7	
07-03-36175	-Full Matrix (duplicated).	Unit	4	
07-03-36176	-Auxiliary /Engineering order wire.	Set	1	
07-03-36177	-Telephone Handset.	Lot	1	
07-03-36178	-Installation Materials & Tools.	Lot	2	
07-03-36179	-Racks with power supply unit (duplicated)and cable head.	Set	4	
07-03-36180	-Digital Distribution Frames.	Set	4	
07-03-36183	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	1	
07-03-36182	-Equipment craft terminal for programmed control and display with operation soft ware .	Set	2	
07-03-36183	-Spare parts & spare units.	Lot	2	
07-03-36184	-Installation materials & tools.	Lot	2	
07-03-36185	-Documentation.	Set	1	
07-03-36189	Network Management Equipment	Lot	1	
07-03-36190	-Central Network Management System platform(Hardware)	Lot	0	
		Set	0	
07-03-36191	-Central Network Management System software packages.	Lot	0	
07-03-36192	-Local Network Management Equipment (craft terminals).	Lot	0	
07-03-36193	-Mediation , Interface, and connection cards &modules.	Lot	0	
07-03-36194	-Installation Materials & Tools.	Set	0	
07-03-36195	-Documentation..			

Code	Item Description	Unit	Qty	Complementary Items
07-03-36119	Test Instruments	Lot	1	
07-03-36200	-Digital Multimeter.	Set	1	
07-03-36201	-Frequency Counter .	Set	1	
07-03-36202	-Power Meter .	Set	1	
07-03-36203	-PCM Multiplex Tester .	Set	1	
07-03-36204	-RF Sweep Generator .	Set	0	
07-03-36205	-VSWR Test Set.	Set	0	
07-03-36206	-Scalar Network Analyzer .	Set	0	
07-03-36207	-RF Spectrum Analyzer.	Set	0	
07-03-36208	-SDH Analyzer for STM-1.	Set	0	
07-03-36209	-TX / RX MW Link Analyzer .	Set	0	
07-03-36210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-36211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-36212	-Vedio Test Set.	Set	1	
07-03-36213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	1	
07-03-36214	-Cables & Adapters.	Set	1	
07-03-36215	-Waveguide / Coax. Adapters.	Set	1	
07-03-36216	-Documentation.	Set	1	
07-03-36219	Specific Tools	Lot	1	
07-03-36220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-36221	-Specific Maintenance Tools	Lot	1	
07-03-36222	-Station Tools	Lot	1	
07-03-36223	-Special Tools for waveguide.	Lot	1	
07-03-36224	-Installation Tools.	Lot	3	
07-03-36229	Services	Lot	1	
07-03-36230	-Factory Training Abroad.	Trainee	1	
07-03-36231	-Training In Iraq.	Trainee	3	
07-03-36232	-Supervision Services (Supplier Expert).	Expert	1	

ANNEX SEVEN / Telecommunications

Sub - sector : South Digital Microwave Link Baghdad - Basra and Kut-Nasriya

Site - Name : NASRIYA-MW

Code	Item Description	Unit	Qty	Complementary Items
07-03-37100	SDH Microwave Radio Equipment	Lot	1	
07-03-37101	-STM-1,6GHZ (3+1), Radio Terminal. With Frequency Diversity / Space Diversity all complete.	Set	1	
07-03-37102	-128 QAM Modems Modules.	Set	4	
07-03-37103	-Protection Switch.	Set	1	
07-03-37104	-Engineering order wire channel.	Set	1	
07-03-37105	-2Mb/s auxiliary traffic.	Set	3	
07-03-37106	-Interface to central Network management.	Set	1	
07-03-37107	-Peripherals (Lap Top PC , etc.....)	Set	1	
07-03-37108	-Rack with 48V. d/c unit (duplicated).	Set	2	
07-03-37109	-Installation & Maintenance tools & materials.	Set	1	
07-03-37110	-Spare parts & spare units.	lot	1	
07-03-37111	-Documentation.	Set	1	
07-03-37119	Microwave Antennas	Lot	1	
07-03-37120	-Parabolic Dish (2.4m. - 3m diameter).	Set	2	
07-03-37121	-Antenna Radiation Element with (V&H)Ports.	Set	2	
07-03-37122	-Connector Flanges.	Set	4	
07-03-37123	-Tower Attachment.	Set	2	
07-03-37124	-Installation & Maintenance tools & materials.	Set	2	
07-03-37129	Microwave Feeders	Lot	1	
07-03-37130	-Elliptical waveguide for 6 GHZ band .	Meter	500	
07-03-37131	-Medium capacity dehydrator.	Unit	1	
07-03-37132	-Pressure Window.	Unit		
07-03-37133	-Fixture clamps.	Set	6	
07-03-37134	-Earthing Kits.	Set	6	
07-03-37135	-Installation materials & tools.	Set	6	
07-03-37136	-Documentation.	Set	1	
07-03-37139	DC Power Plant	Lot	1	
07-03-37140	-Modular switched rectifier system 48V / 30Ampere module (10+2) configuration.	Set	1	
07-03-37141	-48V,1000AH Lead-Acid Sealed-Batteries(2sets).	Lot		
07-03-37142	-Cabinet.	Set	1	
07-03-37143	-Installation materials , cables, tools.	Set	4	
07-03-37144	- Documentation.	Set	1	
07-03-37149	Air Conditioners	Lot	1	
07-03-37150	-Duplicate 24000 BTU Unit.	Set	2	
07-03-37151	-Piping & installation materials & fixtures.	Set	2	
07-03-37152	-Spare parts.	Set	2	
07-03-37153	-Documentation.	Set	2	

Code	Item Description	Unit	Qty	Complementary Items
07-03-37159	Diesel Engine Generator	Lot	1	
07-03-37160	-Capacity 50 KVA, Dual Set.	Set		
07-03-37161	-Daily Fuel Tank.	Set	1	
07-03-37162	-Fan.	Set	1	
07-03-37163	-Piping.	Set	1	
07-03-37164	-Control cubicle & Alarms.	Set	1	
07-03-37165	-Installation Materials & Tools.	Set	1	
07-03-37166	-Spare parts & PCB's.	Set	1	
07-03-37167	-Documentation.	Set	1	
			1	
07-03-37169	SDH Multiplex Equipment	Lot	1	
07-03-37170	-STM-4 Mutliplexer Subrack with redundant common units	Set	4	
07-03-37171	-STM-1 Multiplex Subrack with redundant common units	Set		
07-03-37172	-Tributary Cards (3x34Mb/s, 21x2Mb/s,140/155 Mb/s switch , 7x2Mb/s).	Set	3	
07-03-37173	-Access & Connection Modules.	Set	3	
07-03-37174	-V-S Encoding-Decoding Equipment 34Mb/s IP/OP contained in subracks with common units & with function units, controllers ,connectors, ETC.....	Lot	3	
07-03-37175	-Full Matrix (duplicated).	Unit		
07-03-37176	-Auxiliary /Engineering order wire.	Set	14	
07-03-37177	-Telephone Handset.	Lot	2	
07-03-37178	-Installation Materials & Tools.	Lot	2	
07-03-37179	-Racks with power supply unit (duplicated)and cable head.	Set	2	
07-03-37180	-Digital Distribution Frames.	Set	6	
07-03-37181	-Primary Multiplex (PCM-30CH.) Subrack with common units & channel PCB's of different configurations.	Set	6	
07-03-37182	-Equipment craft terminal for programmed control and display with operation soft ware .	Unit	20	
07-03-37183	-Spare parts & spare units.	Lot	2	
07-03-37184	-Installation materials & tools.	Lot	2	
07-03-37185	-Documentation.	Set	2	
			2	
07-03-37189	Network Management Equipment	Lot	1	
07-03-37190	-Central Network Management System platform(Hard ware)	Lot	1	
	-Central Network Management System software packages.	Set	1	
07-03-37191	-Local Network Management Equipment (craft terminals).	Lot	1	
07-03-37192	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-03-37193	-Installation Materials & Tools.	Lot	1	
07-03-37194	-Documentation..	Set	1	
07-03-37195				

Code	Item Description	Unit	Qty	Complementary Items
07-03-37119	Test Instruments	Lot	1	
07-03-37200	-Digital Multimeter.	Set	2	
07-03-37201	-Frequency Counter .	Set	1	
07-03-37202	-Power Meter .	Set	1	
07-03-37203	-PCM Multiplex Tester .	Set	1	
07-03-37204	-RF Sweep Generator .	Set	0	
07-03-37205	-VSWR Test Set.	Set	0	
07-03-37206	-Scalar Network Analyzer .	Set	0	
07-03-37207	-RF Spectrum Analyzer.	Set	0	
07-03-37208	-SDH Analyzer for STM-1.	Set	1	
07-03-37209	-TX / RX MW Link Analyzer .	Set	0	
07-03-37210	-PDH Analyzer (2Mb/s).	Set	0	
07-03-37211	-Oscilloscope 500 MHZ Dual channel.	Set	0	
07-03-37212	-Vedio Test Set.	Set	0	
07-03-37213	-RF Attenuators Fixed & Variable (0 - 60)DB.	Set	0	
07-03-37214	-Cables & Adapters.	Set	1	
07-03-37215	-Waveguide / Coax. Adapters.	Set	0	
07-03-37216	-Documentation.	Set	1	
07-03-37219	Specific Tools	Lot	1	
07-03-37220	-20 Ton Lorry with crane & winch.	Unit	0	
07-03-37221	-Specific Maintenance Tools	Lot	1	
07-03-37222	-Station Tools	Lot	1	
07-03-37223	-Special Tools for waveguide.	Lot	1	
07-03-37224	-Installation Tools.	Lot	1	
07-03-37229	Services	Lot	1	
07-03-37230	-Factory Training Abroad.	Trainee	5	
07-03-37231	-Training In Iraq.	Trainee	8	
07-03-37232	-Supervision Services (Supplier Expert).	Expert	2	

ANNEX SEVEN / Telecommunications
Sub - sector : Digital Microwave Link For BASRA / IRAQ
Site - Name : ASHAAR EXCHANGE

Code	Item Description	Unit	Qty.	Complementary Items
07-03-40100	SDH Microwave Radio Equipment, STM-1,13 GHZ (3+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	
07-03-40101	-Installation materials.	Lot	2	
07-03-40102	-Spare parts & spare units.	Lot	2	
07-03-40103	-Documentation.	Set	1	
07-03-40104	Microwave Parabolic Dish (3.0 m.)Antenna with (two)Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	2	
07-03-40105	-Microwave Elliptical waveguide Feeder Run, 11GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	2	
07-03-40106	-Medium Capacity Dehydrator.	Unit	1	
07-03-40107	-10% Spares.	Lot	1	
07-03-40108	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(2+1)configuration, 48V, 200Ah Lead-Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	2	
07-03-40109	-Spare Parts & Spare Units.	Lot	1	
07-03-40110	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-40111	-SDH Multiplex Equipment including,STM1Multiplexer Subrack with redundant common units ADM, Terminal configuration , Tributary & Elect. Aggregate Cards (, 21x2Mb/s,140/155Mb/s switch,) 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	12	
07-03-40112	-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	6	
07-03-40113	-Spare parts & spare units.	Lot	1	
07-03-40114	-Installation materials & tools.	Lot	1	
07-03-40115	-Network Management Equipment consisting of Local Network Management System platform (Hardware),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	
07-03-40116	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter , PCM Multiplex Tester , SDH Analyzer for STM-1, PDH Analyzer (2Mb/s), RF Attenuators Fixed & Variable (0- 60) DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-03-40117	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-03-40118	-Factory Training Abroad.	Trainee	2	
07-03-40119	-Training In Iraq.	Trainee Expert	4	
07-03-40120	-Supervision Services (Supplier Expert).		1	

ANNEX SEVEN / Telecommunications
Sub - sector : Digital Microwave Link For BASRA / IRAQ
Site - Name : BAB ALZUBAIR

Code	Item Description	Unit	Qty.	Complementary Items
07-03-41100	SDH Microwave Radio Equipment, STM-1,13 GHZ (3+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	
07-03-41101	-Installation materials.	Lot	2	
07-03-41102	-Spare parts & spare units.	Lot	2	
07-03-41103	-Documentation.	Set	1	
07-03-41104	Microwave Parabolic Dish (2.4 m.)Antenna with (two)Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	2	
07-03-41105	-Microwave Elliptical waveguide Feeder Run, 13GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	2	
07-03-41106	-Medium Capacity Dehydrator.	Unit	1	
07-03-41107	-10% Spares.	Lot	1	
07-03-41108	-Tower (40m height)-steel type-self support capable of carrying 4 antennae at the top at maximum wind gust complete with antenna mount structure	Unit	1	
07-03-41109	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(2+1)configuration, 48V, 200Ah Lead-Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	2	
07-03-41110	-Spare Parts & Spare Units.	Lot	1	
07-03-41111	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-41112	-SDH Multiplex Equipment including,STM1Multiplexer Subrack with redundant common units ADM, Terminal Configuration, Tributary & Elect. Aggregate Cards (, 21x2Mb/s,140/155Mb/s switch,) 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	12	
07-03-41113	-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	6	
07-03-41114	-Spare parts & spares units.	Lot	1	
07-03-41115	-Installation materials & tools.	Lot	1	
07-03-41116	-Network Management Equipment consisting of Local Network Management System platform (Hardware),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	
07-03-41117	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, SDH Analyzer for STM-1, PDH Analyzer (2Mb/s), RF Attenuators Fixed & Variable (0- 60) dB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-03-41118	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-03-41119	-Factory Training Abroad.	Trainee	2	
07-03-41120	-Training In Iraq.	Trainee Expert	4	
07-03-41121	-Supervision Services (Supplier Expert).		1	

ANNEX SEVEN / Telecommunications
Sub - sector: Digital Microwave Link For BASRA / IRAQ
Site - Name: ANDALUS EXCHANGE

Code	Item Description	Unit	Qty.	Complementary Items
07-03-42100	SDH Microwave Radio Equipment, STM-1, 13 GHZ (3+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	
07-03-42101	-Installation materials.	Lot	2	
07-03-42102	-Spare parts & spare units.	Lot	2	
07-03-42103	-Documentation.	Set	1	
07-03-42104	Microwave Parabolic Dish (2.4 m.)Antenna with (two) Polarization's all-complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	2	
07-03-42105	-Microwave Elliptical waveguide Feeder Run 11GHZ band all complete with Pressure Window, Fixture clamps, Earthling Kits, Installation materials & Documentation.	Lot	2	
07-03-42106	-Medium Capacity Dehydrator.	Unit	1	
07-03-42107	-10% Spares.	Lot	1	
07-03-41108	-Tower (40m height)-steel type-self support capable of carrying 4 antennae at the top at maximum wind gust complete with antenna mount structure	Unit	1	
07-03-42109	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(2+1)configuration, 48V, 200Ah Lead-Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	2	
07-03-42110	-Spare Parts & Spare Units.	Lot	1	
07-03-42111	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-42112	-SDH Multiplex Equipment including,STM1Multiplexer Subrack with redundant common units ADM, Terminal Configuration, Tributary & Elect. Aggregate Cards (, 21x2Mb/s,140/155Mb/s switch,) 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	126	
07-03-42113	-Primary Multiplex (PCM-30CH.) Subrack with Common units & channel PCB's of different configs. Installed in Racks with power supply units,	Lot	6	
07-03-42114	Cable head & Digital Distribution Frames.	Lot	1	
07-03-42115	-Spare parts & spare units. -Installation materials & tools.	Lot	1	
07-03-42116	-Network Management Equipment consisting of Local Network Management System platform (Hardware),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	
07-03-42117	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, SDH Analyzer for STM-1, PDH Analyzer (2Mb/s), RF Attenuators Fixed & Variable (0- 60) dB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-03-42118	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-03-42119	-Factory Training Abroad.	Trainee	2	
07-03-42120	-Training In Iraq.	Trainee Expert	4	
07-03-42121	-Supervision Services (Supplier Expert).		1	

ANNEX SEVEN / Telecommunications
Sub - sector : Digital Microwave Link For BAGHDAD / IRAQ
Site - Name : SHAAB EXCHANGE

Code	Item Description	Unit	Qty.	Complementary Items
07-03-50100	SDH Microwave Radio Equipment, STM-1,13 GHZ (3+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	1	
07-03-50101	-Installation materials.	Lot	1	
07-03-50102	-Spare parts & spare units.	Lot	1	
07-03-50103	-Documentation.	Set	1	
07-03-50104	Microwave Parabolic Dish (3.0 m.)Antenna with (two)Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	1	
07-03-50105	-Microwave Elliptical waveguide Feeder Run(100m), 13GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	1	
07-03-50106	-Medium Capacity Dehydrator.	Unit	1	
07-03-50107	-10% Spares.	Lot	1	
07-03-50108	-Tower (50m height)-steel type-self support capable of carrying 4 antennae at the top at maximum wind gust complete with antenna mount structure	Unit	1	
07-03-50109	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(2+1)configuration, 48V, 200Ah Lead-Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-03-50110	-Spare Parts & Spare Units.	Lot	1	
07-03-50111	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-50112	-SDH Multiplex Equipment including,STM1Multiplexer Subrack with redundant common units ADM, Terminal Configuration, Tributary & Elect. Aggregate Cards (, 21x2Mb/s,140/155Mb/s switch,) 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	3	
07-03-50113	-Primary Multiplex (PCM-30CH.) Subrack with Common units & channel PCB's of different configs.	Lot	3	
07-03-50114	Installed in Racks with power supply units, Cable head & Digital Distribution Frames.	Lot	1	
07-03-50115	-Spare parts & spares units. -Installation materials & tools.	Lot	1	
07-03-50116	-Network Management Equipment consisting of Local Network Management System platform (Hardware),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	
07-03-50117	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, SDH Analyzer for STM-1, PDH Analyzer (2Mb/s), RF Attenuators Fixed & Variable (0- 60) dB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-03-50118	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-03-50119	-Factory Training Abroad.	Trainee	2	
07-03-50120	-Training In Iraq.	Trainee Expert	4	
07-03-50121	-Supervision Services (Supplier Expert).		1	

ANNEX SEVEN / Telecommunications
Sub - sector: Digital Microwave Link For BASRA / IRAQ
Site - Name: BAB AL MUATHUM EXCHANGE

Code	Item Description	Unit	Qty.	Complement ary Items
07-03-51100	SDH Microwave Radio Equipment, STM-1, 13 GHZ (3+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	1	
07-03-51101	-Installation materials.	Lot	1	
07-03-51102	-Spare parts & spare units.	Lot	1	
07-03-51103	-Documentation.	Set	1	
07-03-51104	Microwave Parabolic Dish (3.0 m.)Antenna with (two) Polarization's all-complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	1	
07-03-51105	-Microwave Elliptical waveguide Feeder Run (100m)13GHZ band all complete with Pressure Window, Fixture clamps, Earthling Kits, Installation materials & Documentation.	Lot	1	
07-03-51106	-Medium Capacity Dehydrator.	Unit	1	
07-03-51107	-10% Spares.	Lot	1	
07-03-51108	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(2+1)configuration, 48V, 200Ah Lead-Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-03-51109	-Spare Parts & Spare Units.	Lot	1	
07-03-51110	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	
07-03-51111	-SDH Multiplex Equipment including,STM1Multiplexer Subrack with redundant common units ADM, Terminal Configuration, Tributary & Elect. Aggregate Cards (, 21x2Mb/s,140/155Mb/s switch,) 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	3	
07-03-51112	-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	3	
07-03-51113	-Spare parts & spare units.	Lot	1	
07-03-51114	-Installation materials & tools.	Lot	1	

ANNEX SEVEN / Telecommunications
Sub - sector : Digital Microwave Link For BAGHDAD / IRAQ
Site - Name : GAZALIYA EXCHANGE

Code	Item Description	Unit	Qty.	Complementary Items
07-03-52100	SDH Microwave Radio Equipment, STM-1,13 GHZ (3+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	1	
07-03-52101	-Installation materials.	Lot	1	
07-03-52102	-Spare parts & spare units.	Lot	1	
07-03-52103	-Documentation.	Set	1	
07-03-52104	Microwave Parabolic Dish (1.8 m.)Antenna with (two)Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	1	
07-03-52105	-Microwave Elliptical waveguide Feeder Run,(100m) 13GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	1	
07-03-52106	-Medium Capacity Dehydrator.	Unit	1	
07-03-52107	-10% Spares.	Lot	1	
07-03-52108	-Tower (50m height)-steel type-self support capable of carrying 4 antennae at the top at maximum wind gust complete with antenna mount structure	Unit	1	
07-03-52109	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(2+1)configuration, 48V, 200Ah Lead-Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-03-52110	-Spare Parts & Spare Units.	Lot	1	
07-03-52111	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-52112	-SDH Multiplex Equipment including,STM1Multiplexer Subrack with redundant common units ADM, Terminal configuration , Tributary & Elect. Aggregate Cards (, 21x2Mb/s,140/155Mb/s switch,) 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	3	
07-03-52113	-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	3	
07-03-52114	-Spare parts & spare units.	Lot	1	
07-03-52115	-Installation materials & tools.	Lot	1	
07-03-52116	-Network Management Equipment consisting of Local Network Management System platform (Hardware),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	
07-03-52117	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter , PCM Multiplex Tester , SDH Analyzer for STM-1, PDH Analyzer (2Mb/s), RF Attenuators Fixed & Variable (0- 60) DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-03-52118	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-03-52119	-Factory Training Abroad.	Trainee	2	
07-03-52120	-Training In Iraq.	Trainee Expert	4	
07-03-52121	-Supervision Services (Supplier Expert).		1	

ANNEX SEVEN / Telecommunications
Sub - sector : Digital Microwave Link For BAGHDAD / IRAQ
Site - Name : DAWOODI EXCHANGE

Code	Item Description	Unit	Qty.	Complement ary Items
07-03-53100	SDH Microwave Radio Equipment, STM-1,13 GHZ (3+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	1	
07-03-53101	-Installation materials.	Lot	1	
07-03-53102	-Spare parts & spare units.	Lot	1	
07-03-53103	-Documentation.	Set	1	
07-03-53104	Microwave Parabolic Dish (1.8 m.)Antenna with (two)Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	1	
07-03-53105	-Microwave Elliptical waveguide Feeder Run, 13GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	1	
07-03-53106	-Medium Capacity Dehydrator.	Unit	1	
07-03-53107	-10% Spares.	Lot	1	
07-03-53108	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(2+1)configuration, 48V, 200Ah Lead-Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-03-53109	-Spare Parts & Spare Units.	Lot	1	
07-03-53110	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	
07-03-53111	-SDH Multiplex Equipment including,STM1Multiplexer Subrack with redundant common units ADM, Terminal Configuration, Tributary & Elect. Aggregate Cards (, 21x2Mb/s,140/155Mb/s switch,) 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	3	
07-03-53112	-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	3	
07-03-53113	-Spare parts & spares units.	Lot	1	
07-03-53114	-Installation materials & tools.	Lot	1	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-53115	-Network Management Equipment consisting of Local Network Management System platform (Hardware), 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	
07-03-53116	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, SDH Analyzer for STM-1, PDH Analyzer (2Mb/s), RF Attenuators Fixed & Variable (0- 60) dB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-03-53117	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-03-53118	-Factory Training Abroad.	Trainee	2	
07-03-53119	-Training In Iraq.	Trainee Expert	4	
07-03-53120	-Supervision Services (Supplier Expert).		1	

ANNEX SEVEN / Telecommunications
Sub - sector: Digital Microwave Link For BAGHDAD / IRAQ
Site - Name: SHUALA EXCHANGE

Code	Item Description	Unit	Qty.	Complementary Items
07-03-54100	SDH Microwave Radio Equipment, STM-1, 13 GHZ (3+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	1	
07-03-54101	-Installation materials.	Lot	1	
07-03-54102	-Spare parts & spare units.	Lot	1	
07-03-54103	-Documentation.	Set	1	
07-03-54104	Microwave Parabolic Dish (2.4 m.)Antenna with (two) Polarization's all-complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	1	
07-03-54105	-Microwave Elliptical waveguide Feeder Run 13GHZ band all complete with Pressure Window, Fixture clamps, Earthling Kits, Installation materials & Documentation.	Lot	1	
07-03-54106	-Medium Capacity Dehydrator.	Unit	1	
07-03-54107	-10% Spares.	Lot	1	
07-03-54108	-Tower (50m height)-steel type-self support capable of carrying 4 antennae at the top at maximum wind gust complete with antenna mount structure	Unit	1	
07-03-54109	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(2+1)configuration, 48V, 200Ah Lead-Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-03-54110	-Spare Parts & Spare Units.	Lot	1	
07-03-54111	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-54112	-SDH Multiplex Equipment including,STM1Multiplexer Subrack with redundant common units ADM, Terminal Configuration, Tributary & Elect. Aggregate Cards (, 21x2Mb/s,140/155Mb/s switch,) 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	3	
07-03-54113	-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	3	
07-03-54114	-Spare parts & spare units.	Lot	1	
07-03-54115	-Installation materials & tools.	Lot	1	

ANNEX SEVEN / Telecommunications
Sub - sector : Digital Microwave Link For BAGHDAD / IRAQ
Site - Name : KADIMIYA EXCHANGE

Code	Item Description	Unit	Qty.	Complement ary Items
07-03-55100	SDH Microwave Radio Equipment, STM-1,13 GHZ (3+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	1	
07-03-55101	-Installation materials.	Lot	1	
07-03-55102	-Spare parts & spare units.	Lot	1	
07-03-55103	-Documentation.	Set	1	
07-03-55104	Microwave Parabolic Dish (1.8 m.)Antenna with (two)Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	1	
07-03-55105	-Microwave Elliptical waveguide Feeder Run, 11GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	1	
07-03-55106	-Medium Capacity Dehydrator.	Unit	1	
07-03-55107	-10% Spares.	Lot	1	
07-03-55108	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(2+1)configuration, 48V, 200Ah Lead-Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-03-55109	-Spare Parts & Spare Units.	Lot	1	
07-03-55110	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	
07-03-55111	-SDH Multiplex Equipment including,STM1Multiplexer Subrack with redundant common units ADM, Terminal configuration , Tributary & Elect. Aggregate Cards (, 21x2Mb/s,140/155Mb/s switch,) 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	3	
07-03-55112	-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	3	
07-03-55113	-Spare parts & spare units.	Lot	1	
07-03-55114	-Installation materials & tools.	Lot	1	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-55115	-Network Management Equipment consisting of Local Network Management System platform (Hardware), 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	
07-03-55116	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter , PCM Multiplex Tester , SDH Analyzer for STM-1, PDH Analyzer (2Mb/s), RF Attenuators Fixed & Variable (0- 60) DB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-03-55117	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-03-55118	-Factory Training Abroad.	Trainee	2	
07-03-55119	-Training In Iraq.	Trainee Expert	4	
07-03-55120	-Supervision Services (Supplier Expert).		1	

ANNEX SEVEN / Telecommunications
Sub - sector : Digital Microwave Link For BAGHDAD / IRAQ
Site - Name : AMEEN EXCHANGE

Code	Item Description	Unit	Qty.	Complementary Items
07-03-56100	SDH Microwave Radio Equipment, STM-1,13 GHZ (3+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	1	
07-03-56101	-Installation materials.	Lot	1	
07-03-56102	-Spare parts & spare units.	Lot	1	
07-03-56103	-Documentation.	Set	1	
07-03-56104	Microwave Parabolic Dish (2.4 m.)Antenna with (two)Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	1	
07-03-56105	-Microwave Elliptical waveguide Feeder Run, 13GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	1	
07-03-56106	-Medium Capacity Dehydrator.	Unit	1	
07-03-56107	-10% Spares.	Lot	1	
07-03-56108	-Tower (50m height)-steel type-self support capable of carrying 4 antennae at the top at maximum wind gust complete with antenna mount structure	Unit	1	
07-03-56109	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(2+1)configuration, 48V, 200Ah Lead-Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-03-56110	-Spare Parts & Spare Units.	Lot	1	
07-03-56111	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-56112	-SDH Multiplex Equipment including,STM1Multiplexer Subrack with redundant common units ADM, Terminal Configuration, Tributary & Elect. Aggregate Cards (, 21x2Mb/s,140/155Mb/s switch,) 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	3	
07-03-56113	-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	3	
07-03-56114	-Spare parts & spares units.	Lot	1	
07-03-56115	-Installation materials & tools.	Lot	1	
07-03-56116	-Network Management Equipment consisting of Local Network Management System platform (Hardware),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	
07-03-56117	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, SDH Analyzer for STM-1, PDH Analyzer (2Mb/s), RF Attenuators Fixed & Variable (0- 60) dB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-03-56118	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-03-56119	-Factory Training Abroad.	Trainee	2	
07-03-56120	-Training In Iraq.	Trainee Expert	4	
07-03-56121	-Supervision Services (Supplier Expert).		1	

ANNEX SEVEN / Telecommunications
Sub - sector: Digital Microwave Link For BAGHDAD / IRAQ
Site - Name: NEW BAGHDAD EXCHANGE

Code	Item Description	Unit	Qty.	Complement ary Items
07-03-57100	SDH Microwave Radio Equipment, STM-1, 13 GHZ (3+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	1	
07-03-57101	-Installation materials.	Lot	1	
07-03-57102	-Spare parts & spare units.	Lot	1	
07-03-57103	-Documentation.	Set	1	
07-03-57104	Microwave Parabolic Dish (1.8 m.)Antenna with (two) Polarization's all-complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	1	
07-03-57105	-Microwave Elliptical waveguide Feeder Run 13GHZ band all complete with Pressure Window, Fixture clamps, Earthling Kits, Installation materials & Documentation.	Lot	3	
07-03-57106	-Medium Capacity Dehydrator.	Unit	1	
07-03-57107	-10% Spares.	Lot	1	
07-03-57108	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(2+1)configuration, 48V, 200Ah Lead-Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-03-57109	-Spare Parts & Spare Units.	Lot	1	
07-03-57110	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	
07-03-57111	-SDH Multiplex Equipment including,STM1Multiplexer Subrack with redundant common units ADM, Terminal Configuration, Tributary & Elect. Aggregate Cards (, 21x2Mb/s,140/155Mb/s switch,) 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	3	
07-03-57112	-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	3	
07-03-57113	-Spare parts & spare units.	Lot	1	
07-03-57114	-Installation materials & tools.	Lot	1	

ANNEX SEVEN / Telecommunications
Sub - sector: Digital Microwave Link For BAGHDAD / IRAQ
Site - Name: INTISAR EXCHANGE

Code	Item Description	Unit	Qty.	Complementary Items
07-03-58100	SDH Microwave Radio Equipment, STM-1, 13 GHZ (3+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	1	
07-03-58101	-Installation materials.	Lot	1	
07-03-58102	-Spare parts & spare units.	Lot	1	
07-03-58103	-Documentation.	Set	1	
07-03-58104	Microwave Parabolic Dish (2.4 m.)Antenna with (two)Polarization's all-complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	1	
07-03-58105	-Microwave Elliptical waveguide Feeder Run 13GHZ band all complete with Pressure Window, Fixture clamps, Earthling Kits, Installation materials & Documentation.	Lot	1	
07-03-58106	-Medium Capacity Dehydrator.	Unit	1	
07-03-58107	-10% Spares.	Lot	1	
07-03-58108	-Tower (50m height)-steel type-self support capable of carrying 4 antennae of the size required above at the top at maximum wind gust complete with antenna mount structure	Unit	1	
07-03-58109	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(2+1)configuration, 48V, 200Ah Lead-Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-03-58110	-Spare Parts & Spare Units.	Lot	1	
07-03-58111	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-58112	-SDH Multiplex Equipment including,STM1Multiplexer Subrack with redundant common units ADM, Terminal Configuration, Tributary & Elect. Aggregate Cards (, 21x2Mb/s,140/155Mb/s switch,) 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	3	
07-03-58113	-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	3	
07-03-58114	-Spare parts & spare units.	Lot	1	
07-03-58115	-Installation materials & tools.	Lot	1	
07-03-58116	-Network Management Equipment consisting of Local Network Management System platform (Hardware),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	
07-03-58117	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, SDH Analyzer for STM-1, PDH Analyzer (2Mb/s), RF Attenuators Fixed & Variable (0- 60) dB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-03-58118	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-03-58119	-Factory Training Abroad.	Trainee	2	
07-03-58120	-Training In Iraq.	Trainee Expert	4	
07-03-58121	-Supervision Services (Supplier Expert).		1	

ANNEX SEVEN / Telecommunications
Sub - sector: Digital Microwave Link For BAGHDAD / IRAQ
Site - Name: MAMOON EXCHANGE

Code	Item Description	Unit	Qty.	Complementary Items
07-03-59100	SDH Microwave Radio Equipment, STM-1, 13 GHZ (3+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	1	
07-03-59101	-Installation materials.	Lot	1	
07-03-59102	-Spare parts & spares units.	Lot	1	
07-03-59103	-Documentation.	Set	1	
07-03-59104	Microwave Parabolic Dish (1.8 m.)Antenna with (two) Polarization's all-complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	1	
07-03-59105	-Microwave Elliptical waveguide Feeder Run 13GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	1	
07-03-59106	-Medium Capacity Dehydrator.	Unit	1	
07-03-59107	-10% Spares.	Lot	1	
07-03-59108	-Tower (4.0m height) roof mount-steel type-self support capable of carrying 4 antennae of the size required above at the top at maximum wind gust complete with antenna mount structure	Unit	1	
07-03-59109	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(2+1)configuration, 48V, 200Ah Lead-Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-03-59110	-Spare Parts & Spare Units.	Lot	1	
07-03-59111	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-59112	-SDH Multiplex Equipment including,STM1Multiplexer Subrack with redundant common units ADM, Terminal Configuration, Tributary & Elect. Aggregate Cards (, 21x2Mb/s,140/155Mb/s switch,) 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	3	
07-03-59113	-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	3	
07-03-59114	-Spare parts & spares units.	Lot	1	
07-03-59115	-Installation materials & tools.	Lot	1	
07-03-59116	-Network Management Equipment consisting of Local Network Management System platform (Hardware),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	
07-03-59117	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, SDH Analyzer for STM-1, PDH Analyzer (2Mb/s), RF Attenuators Fixed & Variable (0- 60) dB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-03-59118	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-03-59119	-Factory Training Abroad.	Trainee	2	
07-03-59120	-Training In Iraq.	Trainee Expert	4	
07-03-59121	-Supervision Services (Supplier Expert).		1	

ANNEX SEVEN / Telecommunications
Sub - sector: Digital Microwave Link For BAGHDAD / IRAQ
Site - Name : ABU DSHEER EXCHANGE

Code	Item Description	Unit	Qty.	Complement ary Items
07-03-60100	SDH Microwave Radio Equipment, STM-1, 13 GHZ (3+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	1	
07-03-60101	-Installation materials.	Lot	1	
07-03-60102	-Spare parts & spare units.	Lot	1	
07-03-60103	-Documentation.	Set	1	
07-03-60104	Microwave Parabolic Dish (2.4 m.)Antenna with (two) Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	1	
07-03-60105	-Microwave Elliptical waveguide Feeder Run 13GHZ band all complete with Pressure Window, Fixture clamps, Earthling Kits, Installation materials & Documentation.	Lot	1	
07-03-60106	-Medium Capacity Dehydrator.	Unit	1	
07-03-60107	-10% Spares.	Lot	1	
07-03-60108	-Tower (50m height)-steel type-self support capable of carrying 4 antennae at the top at maximum wind gust complete with antenna mount structure	Unit	1	
07-03-60109	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(2+1)configuration, 48V, 200Ah Lead-Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-03-60110	-Spare Parts & Spare Units.	Lot	1	
07-03-60111	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-60112	-SDH Multiplex Equipment including,STM1Multiplexer Subrack with redundant common units ADM, Terminal Configuration, Tributary & Elect. Aggregate Cards (, 21x2Mb/s,140/155Mb/s switch,) 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	3	
07-03-60113	-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	3	
07-03-60114	-Spare parts & spare units.	Lot	1	
07-03-60115	-Installation materials & tools.	Lot	1	

ANNEX SEVEN / Telecommunications
Sub - sector: Digital Microwave Link For BAGHDAD / IRAQ
Site - Name: DORA EXCHANGE

Code	Item Description	Unit	Qty.	Complement ary Items
07-03-61100	SDH Microwave Radio Equipment, STM-1, 13 GHZ (3+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	
07-03-61101	-Installation materials.	Lot	1	
07-03-61102	-Spare parts & spares units.	Lot	1	
07-03-61103	-Documentation.	Set	1	
07-03-61104	Microwave Parabolic Dish (1.8 m.)Antenna with (two)Polarization's all complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	2	
07-03-61105	-Microwave Elliptical waveguide Feeder Run, 13GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	2	
07-03-61106	-Medium Capacity Dehydrator.	Unit	1	
07-03-61107	-10% Spares.	Lot	1	
07-03-61108	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(2+1)configuration, 48V, 200Ah Lead-Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-03-61109	-Spare Parts & Spare Units.	Lot	1	
07-03-61110	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	
07-03-61111	-SDH Multiplex Equipment including,STM1Multiplexer Subrack with redundant common units ADM, Terminal Configuration, Tributary & Elect. Aggregate Cards (, 21x2Mb/s,140/155Mb/s switch,) 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	6	
07-03-61112	-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	6	
07-03-61113	-Spare parts & spare units.	Lot	1	
07-03-61114	-Installation materials & tools.	Lot	1	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-61115	-Network Management Equipment consisting of Local Network Management System platform (Hardware), 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	
07-03-61116	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter , PCM Multiplex Tester, SDH Analyzer for STM-1, PDH Analyzer (2Mb/s), RF Attenuators Fixed & Variable (0- 60) dB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-03-61117	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-03-61118	-Factory Training Abroad.	Trainee	2	
07-03-61119	-Training In Iraq.	Trainee Expert	4	
07-03-61120	-Supervision Services (Supplier Expert).		1	

ANNEX SEVEN / Telecommunications
Sub - sector: Digital Microwave Link For BAGHDAD / IRAQ
Site - Name : JADIRIYA EXCHANGE

Code	Item Description	Unit	Qty.	Complement ary Items
07-03-62100	SDH Microwave Radio Equipment, STM-1, 13 GHZ (3+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	1	
07-03-62101	-Installation materials.	Lot	1	
07-03-62102	-Spare parts & spare units.	Lot	1	
07-03-62103	-Documentation.	Set	1	
07-03-62104	Microwave Parabolic Dish (1.8 m.)Antenna with (two) Polarization's all-complete with Connector Flanges, Tower Attachment, Installation materials & Documentation.	Lot	1	
07-03-62105	-Microwave Elliptical waveguide Feeder Run, 13GHZ band all complete with Pressure Window, Fixture clamps, Earthing Kits, Installation materials & Documentation.	Lot	1	
07-03-62106	-Medium Capacity Dehydrator.	Unit	1	
07-03-62107	-10% Spares.	Lot	1	
07-03-62108	-DC Power Plant Including Modular Switched Rectifier system 48V/30A. module(2+1)configuration, 48V, 200Ah Lead-Acid Sealed- Batteries (2sets), Cabinets, Installation materials, cables, tools & Documentation.	Lot	1	
07-03-62109	-Spare Parts & Spare Units.	Lot	1	
07-03-62110	-Air Conditioners, Duplicated 18000 / 24000 BTU Unit All Complete With, Piping & installation materials & fixtures, Spare parts & Documentation.	Lot	2	
07-03-62111	-SDH Multiplex Equipment including,STM1Multiplexer Subrack with redundant common units ADM, Terminal Configuration, Tributary & Elect. Aggregate Cards (, 21x2Mb/s,140/155Mb/s switch,) 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	3	
07-03-62112	-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	3	
07-03-62113	-Spare parts & spares units.	Lot	1	
07-03-62114	-Installation materials & tools.	Lot	1	

Code	Item Description	Unit	Qty.	Complementary Items
07-03-62115	-Network Management Equipment consisting of Local Network Management System platform (Hardware), 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	
07-03-62116	Test Instruments including : Digital Multimeter, Frequency Counter, Power Meter, PCM Multiplex Tester, SDH Analyzer for STM-1, PDH Analyzer (2Mb/s), RF Attenuators Fixed & Variable (0- 60) dB, Cables & Adapters Waveguide / Coax. Adapters & relevant Documentation.	Lot	1	
07-03-62117	-Specific Tools including: Specific Maintenance Tools Station Tools, Special Tools for waveguide & General Installation Tools.	Lot	1	
07-03-62118	-Factory Training Abroad.	Trainee	2	
07-03-62119	-Training In Iraq.	Trainee Expert	4	
07-03-62120	-Supervision Services (Supplier Expert).		1	