

## ANNEX SEVEN / Telecommunications

### ANNEX SEVEN / Telecommunications Sub - sector :SUPPER RING ROUND BAGHDAD

Site - Name : KADHIMIA

Code	Item Description	Unit	Qty	Complementary Items
07-20-00001	optical fiber cable-single mode-24 fiber non metalice duct type with accessories sleeve. tools and kit-packing drums(4000m/drum)	km	250	
07-20-00002	subducts smooth wall silicone tube 40/33mm packing drums 2000km/drum	km	750	
07-20-00003	STM-16 ADM multiplexer complete with com. Unit & electrical aggregates-racks	lot	1	
07-20-00004	STM-4 ADM & DX complete with Access unit and able.	lot	1	
07-20-00005	STM-1 TM (21*3) 2Mb/s all complete with Access and installation materials	lot	4	
07-20-00006	PCM-2Mb/s-30 ch. Cables installation	Lot	8	
07-20-00007	DC Power Plant	Lot	1	
07-20-00008	-Modular switched rectifier system 48V / 30Ampere module (2+1) configuration.	Set	1	
07-20-00009	-48V,120Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-20-00010	-Cabinet.	Set	4	
07-20-00011	-Installation materials , cables, tools.	Set	1	
07-20-00012	- Documentation.	Set	1	
07-20-00013	Air Conditioners	Lot	1	
07-20-00014	-Duplicated 24000 BTU Unit.	Set	2	
07-20-00015	-Piping & installation materials & fixtures.	Set	2	
07-20-00016	-Spare parts.	Set	2	
07-20-00016	-Documentation.	Set	2	
-	Single Diesel Engine Generator	Lot	1	
07-20-00017	-Capacity 50 KVA, Dual Set.	Set	1	
07-20-00018	-Daily Fuel Tank.	Set	1	
07-20-00019	-Fan.	Set	1	
07-20-00020	-Piping.	Set	1	
07-20-00021	-Control cubicle & Alarms.	Set	1	
07-20-00022	-Installation Materials & Tools.	Set	1	
07-20-00023	-Spare parts & PCB's.	Set	1	
07-20-00024	-Documentation.	Set	1	

Code	Item Description	Unit	Qty	Comple metary Items
07-20-00025	Test Instruments .-OTDR	Set	1	
07-20-00026	-Frequency Counter 3GHz.	Set	1	
07-20-00027	-Optical Power Meter .	Set	2	
07-20-00028	-Function Generator .	Set	1	
07-20-00029	-Optical Spectrum Analyzer.	Set	1	
07-20-00030	-SDH/PDH Analyzer.	Set	1	
07-20-00031	.-Talk Set 1310/1550	Set	2	
07-20-00032	-PC Disk top+printer	Set	2	
07-20-00033	-Digital Oscilloscope 500 MHZ	Set	1	
07-20-00034	.-Stabilized light source	Set	2	

**ANNEX SEVEN / Telecommunications**  
**Sub - sector : SUPPER RING ROUND BAGHDAD**

**Site - Name :NEW BAGHDAD.**

<b>Code</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Compleme tary Items</b>
07-20-01035	cable jet with access.,air cooler ,poly water pre tube	Set	2	
07-20-01036	air compressors for the cable jet of 12 bar	Set	2	
07-20-01037	fusion splicing machine with access.	Set	2	
07-20-01038	Cable drumtrailer	Set	2	
07-20-01039	figaro accessory to the cable jet	Set	2	
07-20-01040	tool box	Set	4	
07-20-01041	SDH optical transmission equipment STM-16-ADM multiplexer complete	lot	1	
07-20-01042	STM-4 ADM & DX complete	lot	3	
07-20-01043	STM-1 TM (21*3)2Mb/s	lot	4	
07-20-01044	PCM 2Mb/s-30 ch. cable and installation	lot	8	
	<b>DC Power Plant</b>	<b>Lot</b>	<b>1</b>	
07-20-01045	-Modular switched rectifier system 48V / 30Ampere	Set	1	
07-20-01046	module (2+1) configuration.			
07-20-01047	-48V,120Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-20-01048	-Cabinet.	Set	4	
07-20-01049	-Installation materials , cables, tools.	Set	1	
07-20-01050	- Documentation.	Set	1	
	<b>Air Conditioners</b>	<b>Lot</b>	<b>1</b>	
07-20-01051	Air Conditioners	Lot	1	
07-20-01052	-Duplicated 24000 BTU Unit.	Set	2	
07-20-01053	-Piping & installation materials & fixtures.	Set	2	
07-20-01054	-Spare parts.	Set	2	
07-20-01055	-Documentation.	Set	2	
	<b>Single Diesel Engine Generator</b>	<b>Lot</b>	<b>1</b>	
07-20-01056	Single Diesel Engine Generator	Lot	1	
07-20-01057	-Capacity 50 KVA, Dual Set.	Set	1	
07-20-01058	-Daily Fuel Tank.	Set	1	
07-20-01059	-Fan.	Set	1	
07-20-01060	-Piping.	Set	1	
07-20-01061	-Control cubicle & Alarms.	Set	1	
07-20-01062	-Installation Materials & Tools.	Set	1	
07-20-01063	-Spare parts & PCB's.	Set	1	
07-20-01064	-Documentation.	Set	1	
	<b>Network Management Equipment</b>	<b>Lot</b>	<b>1</b>	
07-20-01065	Network Management Equipment	Lot	1	
07-20-01066	-Central Network Management System platform(Hard ware)	Set	1	
07-20-01067	-Central Network Management System software packages.	Lot	1	
07-20-01068	-Local Network Management Equipment ( craft terminals).	Lot	1	
07-20-01069	-Mediation , Interface, and connection cards &modules.	Lot	1	
07-20-01070	-Installation Materials & Tools.	Set	1	
07-20-01071	-Documentation..			

<b>Code</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Complementary Items</b>
07-20-01072	Test Instruments			
07-20-01073	.-OTDR	Set	1	
07-20-01073	-Frequency Counter 3GHz.	Set	1	
07-20-01074	-Optical Power Meter .	Set	2	
07-20-01075	-Function Generator .	Set	1	
07-20-01076	-Optical Spectrum Analyzer.	Set	1	
07-20-01077	-SDH/PDH Analyzer.	Set	1	
07-20-01078	.-Talk Set 1310/1550	Set	2	
07-20-01079	-PC Disk top+printer	Set	2	
07-20-01080	-Digital Oscilloscope 500 MHZ	Set	1	
07-20-01081	.-Stabilized light source	Set	2	

**ANNEX SEVEN / Telecommunications**  
**Sub - sector : SUPPER RING ROUND BAGHDAD**

**Site - Name :ABU-GRAIB**

<b>Code</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Compleme tary Items</b>
07-20-02041	SDH optical transmission equipment STM-16-ADM multiplexer complete	lot	1	
07-20-02042	STM-4 ADM & DX complete	lot	1	
07-20-02043	STM-1 TM (21*3)2Mb/s	lot	4	
07-20-02044	PCM 2Mb/s-30 ch. cable and installation	lot	8	
	<b>DC Power Plant</b>	<b>Lot</b>	<b>1</b>	
07-20-02045	-Modular switched rectifier system 48V / 30Ampere	Set	1	
07-20-02046	module (2+1) configuration.			
07-20-02047	-48V,120Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-20-02048	-Cabinet.	Set	4	
07-20-02049	-Installation materials , cables, tools.	Set	1	
07-20-02050	- Documentation.	Set	1	
	<b>Air Conditioners</b>	<b>Lot</b>	<b>1</b>	
07-20-02051	Air Conditioners	Lot	1	
07-20-02052	-Duplicated 24000 BTU Unit.	Set	2	
07-20-02053	-Piping & installation materials & fixtures.	Set	2	
07-20-02054	-Spare parts.	Set	2	
07-20-02055	-Documentation.	Set	2	
	<b>Single Diesel Engine Generator</b>	<b>Lot</b>	<b>1</b>	
07-20-02056	Single Diesel Engine Generator	Lot	1	
07-20-02057	-Capacity 50 KVA, Dual Set.	Set	1	
07-20-02058	-Daily Fuel Tank.	Set	1	
07-20-02059	-Fan.	Set	1	
07-20-02060	-Piping.	Set	1	
07-20-02061	-Control cubicle & Alarms.	Set	1	
07-20-02062	-Installation Materials & Tools.	Set	1	
07-20-02063	-Spare parts & PCB's.	Set	1	
07-20-02064	-Documentation.	Set	1	

<b>Code</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Compleme tary Items</b>
07-20-02072	Test Instruments			
07-20-02073	.-OTDR	Set	1	
07-20-02073	-Frequency Counter 3GHz.	Set	1	
07-20-02074	-Optical Power Meter .	Set	2	
07-20-02075	-Function Generator .	Set	1	
07-20-02076	-Optical Spectrum Analyzer.	Set	1	
07-20-02077	-SDH/PDH Analyzer.	Set	1	
07-20-02078	.-Talk Set 1310/1550	Set	2	
07-20-02079	-PC Disk top+printer	Set	2	
07-20-02080	-Digital Oscilloscope 500 MHZ	Set	1	
07-20-02081	.-Stabilized light source	Set	2	
07-20-02082	.Note Book PC	Set	10	
07-20-02083	-Digital multimeter	Set	10	
07-20-02083	Optical Attenuators	Set	4	
07-20-02083	Specialized tool set	Set	10	
07-20-02083	Desoldering tools	Set	10	
07-20-02083	Primary mux.Test	Set	4	
07-20-02083	PCM Set test	Set	4	

**ANNEX SEVEN / Telecommunications**  
**Sub - sector : SUPPER RING ROUND BAGHDAD**

**Site - Name :INTISAR**

<b>Code</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Compleme tary Items</b>
07-20-03041	SDH optical transmission equipment STM-16-ADM multiplexer complete	lot	1	
07-20-03042	STM-4 ADM & DX complete	lot	1	
07-20-03043	STM-1 TM (21*3)2Mb/s	lot	4	
07-20-03044	PCM 2Mb/s-30 ch. cable and installation	lot	8	
	<b>DC Power Plant</b>	<b>Lot</b>	<b>1</b>	
07-20-03045	-Modular switched rectifier system 48V / 30Ampere	Set	1	
07-20-03046	module (2+1) configuration.			
07-20-03047	-48V,120Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-20-03048	-Cabinet.	Set	4	
07-20-03049	-Installation materials , cables, tools.	Set	1	
07-20-03050	- Documentation.	Set	1	
	<b>Air Conditioners</b>	<b>Lot</b>	<b>1</b>	
07-20-03051	Air Conditioners	Lot	1	
07-20-03052	-Duplicated 24000 BTU Unit.	Set	2	
07-20-03053	-Piping & installation materials & fixtures.	Set	2	
07-20-03054	-Spare parts.	Set	2	
07-20-03055	-Documentation.	Set	2	
	<b>Single Diesel Engine Generator</b>	<b>Lot</b>	<b>1</b>	
07-20-03056	Single Diesel Engine Generator	Lot	1	
07-20-03057	-Capacity 50 KVA, Dual Set.	Set	1	
07-20-03058	-Daily Fuel Tank.	Set	1	
07-20-03059	-Fan.	Set	1	
07-20-03060	-Piping.	Set	1	
07-20-03061	-Control cubicle & Alarms.	Set	1	
07-20-03062	-Installation Materials & Tools.	Set	1	
07-20-03063	-Spare parts & PCB's.	Set	1	
07-20-03064	-Documentation.	Set	1	

**ANNEX SEVEN / Telecommunications**  
**Sub - sector : SUPPER RING ROUND BAGHDAD**

**Site - Name :SAB-ABKAR**

<b>Code</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Compleme tary Items</b>
07-20-04041	SDH optical transmission equipment STM-16-ADM multiplexer complete	lot	1	
07-20-04042	STM-4 ADM & DX complete	lot	1	
07-20-04043	STM-1 TM (21*3)2Mb/s	lot	4	
07-20-04044	PCM 2Mb/s-30 ch. cable and installation	lot	6	
	<b>DC Power Plant</b>	<b>Lot</b>	<b>1</b>	
07-20-04045	-Modular switched rectifier system 48V / 30Ampere	Set	1	
07-20-04046	module (2+1) configuration.			
07-20-04047	-48V,120Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-20-04048	-Cabinet.	Set	4	
07-20-04049	-Installation materials , cables, tools.	Set	1	
07-20-04050	- Documentation.	Set	1	
	<b>Air Conditioners</b>	<b>Lot</b>	<b>1</b>	
07-20-04051	Air Conditioners	Lot	1	
07-20-04052	-Duplicated 24000 BTU Unit.	Set	2	
07-20-04053	-Piping & installation materials & fixtures.	Set	2	
07-20-04054	-Spare parts.	Set	2	
07-20-04055	-Documentation.	Set	2	
	<b>Single Diesel Engine Generator</b>	<b>Lot</b>	<b>1</b>	
07-20-04056	Single Diesel Engine Generator	Lot	1	
07-20-04057	-Capacity 50 KVA, Dual Set.	Set	1	
07-20-04058	-Daily Fuel Tank.	Set	1	
07-20-04059	-Fan.	Set	1	
07-20-04060	-Piping.	Set	1	
07-20-04061	-Control cubicle & Alarms.	Set	1	
07-20-04062	-Installation Materials & Tools.	Set	1	
07-20-04063	-Spare parts & PCB's.	Set	1	
07-20-04064	-Documentation.	Set	1	

**ANNEX SEVEN / Telecommunications**  
**Sub - sector : SUPPER RING ROUND BAGHDAD**

**Site - Name :DAWOODI**

<b>Code</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Compleme tary Items</b>
07-20-05041	SDH optical transmission equipment STM-16-ADM multiplexer complete	lot	1	
07-20-05042	STM-4 ADM & DX complete	lot	2	
07-20-05043	STM-1 TM (21*3)2Mb/s	lot	4	
07-20-05044	PCM 2Mb/s-30 ch. cable and installation	lot	4	
07-20-05045	DC Power Plant	Lot	1	
07-20-05046	-Modular switched rectifier system 48V / 30Ampere module (2+1) configuration.	Set	1	
07-20-05047	-48V,120Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-20-05048	-Cabinet.	Set	4	
07-20-05049	-Installation materials , cables, tools.	Set	1	
07-20-05050	- Documentation.	Set	1	
07-20-05051	Air Conditioners	Lot	1	
07-20-05052	-Duplicated 24000 BTU Unit.	Set	2	
07-20-05053	-Piping & installation materials & fixtures.	Set	2	
07-20-05054	-Spare parts.	Set	2	
07-20-05055	-Documentation.	Set	2	
07-20-05056	Single Diesel Engine Generator	Lot	1	
07-20-05057	-Capacity 50 KVA, Dual Set.	Set	1	
07-20-05058	-Daily Fuel Tank.	Set	1	
07-20-05059	-Fan.	Set	1	
07-20-05060	-Piping.	Set	1	
07-20-05061	-Control cubicle & Alarms.	Set	1	
07-20-05062	-Installation Materials & Tools.	Set	1	
07-20-05063	-Spare parts & PCB's.	Set	1	
07-20-05064	-Documentation.	Set	1	

**ANNEX SEVEN / Telecommunications**  
**Sub - sector : SUPPER RING ROUND BAGHDAD**

**Site - Name :14 JULY**

<b>Code</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Compleme tary Items</b>
07-20-06041	SDH optical transmission equipment STM-16-ADM multiplexer complete	lot	1	
07-20-06042	STM-4 ADM & DX complete	lot	2	
07-20-06043	STM-1 TM (21*3)2Mb/s	lot	4	
07-20-06044	PCM 2Mb/s-30 ch. cable and installation	lot	4	
	<b>DC Power Plant</b>	<b>Lot</b>	<b>1</b>	
07-20-06045	-Modular switched rectifier system 48V / 30Ampere	Set	1	
07-20-06046	module (2+1) configuration.			
07-20-06047	-48V,120Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-20-06048	-Cabinet.	Set	4	
07-20-06049	-Installation materials , cables, tools.	Set	1	
07-20-06050	- Documentation.	Set	1	
	<b>Air Conditioners</b>	<b>Lot</b>	<b>1</b>	
07-20-06051	Air Conditioners	Lot	1	
07-20-06052	-Duplicated 24000 BTU Unit.	Set	2	
07-20-06053	-Piping & installation materials & fixtures.	Set	2	
07-20-06054	-Spare parts.	Set	2	
07-20-06055	-Documentation.	Set	2	
	<b>Single Diesel Engine Generator</b>	<b>Lot</b>	<b>1</b>	
07-20-06056	Single Diesel Engine Generator	Lot	1	
07-20-06057	-Capacity 50 KVA, Dual Set.	Set	1	
07-20-06058	-Daily Fuel Tank.	Set	1	
07-20-06059	-Fan.	Set	1	
07-20-06060	-Piping.	Set	1	
07-20-06061	-Control cubicle & Alarms.	Set	1	
07-20-06062	-Installation Materials & Tools.	Set	1	
07-20-06063	-Spare parts & PCB's.	Set	1	
07-20-06064	-Documentation.	Set	1	

**ANNEX SEVEN / Telecommunications**  
**Sub - sector : SUPPER RING ROUND BAGHDAD**

**Site - Name :DHUBBAT**

<b>Code</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Complementary Items</b>
07-20-07041	SDH optical transmission equipment STM-16-ADM multiplexer complete	lot	1	
07-20-07042	STM-4 ADM & DX complete	lot	2	
07-20-07043	STM-1 TM (21*3)2Mb/s	lot	4	
07-20-07044	PCM 2Mb/s-30 ch. cable and installation	lot	4	
07-20-07045	DC Power Plant	Lot	1	
07-20-07046	-Modular switched rectifier system 48V / 30Ampere module (2+1) configuration.	Set	1	
07-20-07047	-48V,120Ah Lead-Acid Sealed-Batteries(2sets).	Lot	1	
07-20-07048	-Cabinet.	Set	4	
07-20-07049	-Installation materials , cables, tools.	Set	1	
07-20-07050	- Documentation.	Set	1	
07-20-07051	Air Conditioners	Lot	1	
07-20-07052	-Duplicated 24000 BTU Unit.	Set	2	
07-20-07053	-Piping & installation materials & fixtures.	Set	2	
07-20-07054	-Spare parts.	Set	2	
07-20-07055	-Documentation.	Set	2	
07-20-07056	Single Diesel Engine Generator	Lot	1	
07-20-07057	-Capacity 50 KVA, Dual Set.	Set	1	
07-20-07058	-Daily Fuel Tank.	Set	1	
07-20-07059	-Fan.	Set	1	
07-20-07060	-Piping.	Set	1	
07-20-07061	-Control cubicle & Alarms.	Set	1	
07-20-07062	-Installation Materials & Tools.	Set	1	
07-20-07063	-Spare parts & PCB's.	Set	1	
07-20-07064	-Documentation.	Set	1	
07-20-07081	SERVICES TRAINING & SUPERVISION OF INSTALLATION SDH EQUIPMENT.	week*man	60	
07-20-07082	-SPARE PART(for all project)	%	10	