

SECTOR: ANNEX SEVEN / Telecommunications
Subsector: DESERT OPTICAL FIBER PROJECT
PROJECT or
TITLE :

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
07-05-00000	Scope of the project This document state requirement for the supply of a Synchronous Digital Hierarchy (SDH) network for south desert(BASRH to TALHA route) .to be used as General Public Telecommunication national and international purposes The network will be a countrywide core chain structure consisting of 6 STM-4 ADM stations (TALHA,NKHIB, SHIBCHA , SALMAN,BSSAIA and BASRH)with aggregate (line) transmission capacity at the STM-4 rate with 1+1 multiplex section protection according to the following distances TALHA-NKHIB=170 km/NKHIB-SHIBCHA=250 km/SHIBCHA-SALMAN=140 km/SALMAN-BSSAIA=210 km /BSSAIA-BASRH=230 km. . It shall be capable , in a completely flexible and non-blocking manner of adding and dropping optical and electrical data signals between any of the aggregate line and tributary interfaces of the system . Both uni- and bi-directional, as well as broadcast (to line and tributary) connections shall be supported .For optical transmission ,wavelengths in both the second and third widow (1310nm &1550nm) shall be	1	lot
07-05-00001	Optical Fiber Cable direct buried non-metallic single mode 12 fiber	1,000	Km
07-05-00002	Accessories such as joint kits, closures,...etc	1	lot
07-05-00003	Fusion splicing machine with accessories	2	set
07-05-00004	Cable drum trailer	2	set
07-05-00005	Tools box.	2	set
07-05-00020	SDH Transmission Equipment	1	lot
07-05-00021	STM-4 in ADM configuration The station equipment shall consist Racks, Subracks, Rack power distribution panel, power supply units, aggregate interface units, Tributary interface units as below, cross-connect matrix and multiplex unit, synchronization unit, DCC unit, EOW unit and control unit. The station equipment shall constitute and integrate as complete operational telecom transmission network. Required installation materials such DDF, ODF, MDF ,connectors ,cables, cable racks, fixing materials,...etc	1	lot
07-05-00030	Tributary interfaces		
07-05-00031	63x2Mb/s.	1	UNIT
07-05-00032	3x34Mb/s	1	UNIT
07-05-00033	STM-1 opt.	1	UNIT
07-05-00034	STM-1 elect	1	UNIT
07-05-00035	TV- Encoder	1	UNIT
07-05-00040	PCM equipment	400	V.F line

PROJECT or
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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
07-05-00041	Racks, installation materials, cables		
07-05-00044	DC Power Plant		
07-05-00045	Rectifier system 48V / 30Amps module (2+1) configuration.	1	unit
07-05-00046	48V,120 AH Lead-Acid Sealed-	1	set
07-05-00047	Cabinet.	1	set
07-05-00048	Installation materials , cables, tools.	1	lot
07-05-00049	Documentation.	1	set
07-05-00055	Air Conditioners 24000 BTU Unit.	2	unit
07-05-00056	Piping & installation materials & fixtures.	1	set
07-05-00057	Documentation.	1	set
07-05-00060	Diesel Engine Generator	2	unit
07-05-00061	Capacity 50 KVA, Triple Set.	1	set
07-05-00062	Daily Fuel Tank.B33	1	set
07-05-00063	Fan.	1	set
07-05-00064	Piping.	1	set
07-05-00065	Control cubicle & Alarms.	1	set
07-05-00066	Installation Materials & Tools.	1	lot
07-05-00067	Documentation.	1	set
07-05-00070	TEST EQUIPMENT		
07-05-00071	OTDR for long optical section	3	set
07-05-00072	SDH/PDH Analyzer	2	set
07-05-00073	Optical Power Meter	3	set
07-05-00074	Stabilized Light Source	3	set
07-05-00075	Talk Set 1310/1550	4	set
07-05-00076	Digitizing Oscilloscope 500MHz	2	set
07-05-00077	Composite TV signal test set	2	set
07-05-00078	Optical Spectrum Analyzer	1	set
07-05-00079	Frequency Counter 3GHz	2	set
07-05-00080	Function Generator	1	set
07-05-00081	Digital Multimeter	10	set
07-05-00082	PC Disk Top + printer	4	set
07-05-00083	Note Book PC(Latest Models)	10	set
07-05-00084	Thermostatic Iron	10	set
07-05-00085	Desoldering Tools	10	set
07-05-00086	Primary Mux. Test Set	4	set
07-05-00087	Specialized Tool Set	10	set
07-05-00088	Optical Attenuate	4	set
07-05-00093	Services	100	
07-05-00094	Supervision of installation commissioning		Man*week
07-05-00095	Factory training		Man*week
07-05-00100	Network Management Equipment		
07-05-00101	Central Network Management System platform(hardware)	1	lot
07-05-00102	Central Network Management System software packages.B63	1	lot
07-05-00103	Local Network Management Equipment (craft terminals).	1	lot
07-05-00104	Mediation ,Interface,and connection cards &modules	1	lot
07-05-00105	Installation Materials&tools	1	lot
07-05-00106	Documentation.	1	set

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
	ANNEX SEVEN / Telecommunications Sub - sector:- DESERT OPTICAL FIBER PROJECT Site - Name:-BSSAIA		
07-05-01020	SDH Transmission Equipment	1	lot
07-05-01021	STM-4 in ADM configuration The station equipment shall consist Racks, Subracks, Rack power distribution panel, power supply units, aggregate interface units, Tributary interface units as below, cross-connect matrix and multiplex unit, synchronization unit, DCC unit, EOW unit and control unit. The station equipment shall constitute and integrate as complete operational telecom transmission network. Required installation materials such DDF, ODF, MDF ,connectors ,cables, cable racks, fixing materials,...etc	1	lot
07-05-01030	Tributary interfaces		
07-05-01031	21x2Mb/s.	1	Unit
07-05-01032	3x34Mb/s	1	Unit
07-05-01033	STM-1 opt.		Unit
07-05-01034	STM-1 elect		Unit
07-05-01035	TV- Decoder	1	
07-05-01040	PCM Equipment	60	V.F line
07-05-01041	Racks, installation materials, cables		
07-05-01044	DC Power Plant		
07-05-01045	Rectifier system 48V / 40 Ampers module (2+1) configuration.	1	unit
07-05-01046	48V,300 AH Lead-Acid Sealed-	1	set
07-05-01047	Cabinet.	1	set
07-05-01048	Installation materials , cables, tools.	1	lot
07-05-01049	Documentation.	1	set
07-05-01050	DC cable	30	m
07-05-01055	Air Conditioners24000 BTU Unit.	2	unit
07-05-01056	Piping & installation materials & fixtures.	1	set
07-05-01057	Documentation.	1	set
07-05-01060	Diesel Engine Generator	2	unit
07-05-01061	Capacity 50 KVA, Triple Set.	1	Set
07-05-01062	Daily Fuel Tank. 300 L	1	Set
07-05-01063	Main fuel tank 17000 L	1	Set
07-05-01064	Fan.(ventelator)	1	Set
07-05-01065	Piping.	1	Set
07-05-01066	Control cubicle & Alarms.	1	lot
07-05-01067	Installation Materials & Tools.	1	Set
07-05-01068	Documentation.	1	Lot
	ANNEX SEVEN / Telecommunications Sub - sector DESERT OPTICAL FIBER PROJECT Site - Name:- SALMAN		

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
07-05-02020	SDH Transmission Equipment	1	lot
07-05-02021	STM-4 in ADM configuration The station equipment shall consist Racks, Subracks, Rack power distribution panel, power supply units, aggregate interface units, Tributary interface units as below, cross-connect matrix and multiplex unit, synchronization unit, DCC unit, EOW unit and control unit. The station equipment shall constitute and integrate as complete operational telecom transmission network. Required installation materials such DDF, ODF, MDF ,connectors ,cables, cable racks, fixing materials,...etc	1	lot
07-05-02030	Tributary interfaces		
07-05-02031	21x2Mb/s.	1	Unit
07-05-02032	3x34Mb/s	1	Unit
07-05-02033	STM-1 opt.		Unit
07-05-02034	STM-1 elect		Unit
07-05-02035	.TV- Decoder	1	Unit
07-05-02040	PCM Equipment	60	V.F line
07-05-02041	Racks, installation materials, cables		
07-05-02045	DC Power Plant		
07-05-02046	Rectifier system 48V / 40 Ampers module (2+1) configuration.	1	unit
07-05-02047	48V,300 AH Lead-Acid Sealed-	1	Set
07-05-02048	Cabinet.	1	Set
07-05-02049	Installation materials , cables, tools.	1	Lot
07-05-02050	Documentation.	1	Set
07-05-02050	DC cable.	30	m
07-05-02055	Air Conditioners24000 BTU Unit.	2	Unit
07-05-02056	Piping & installation materials & fixtures.	1	Set
07-05-02057	Documentation.	1	Set
07-05-02060	Diesel Engine Generator	2	Unit
07-05-02061	Capacity 50 KVA, Triple Set.	1	Set
07-05-02062	Daily Fuel Tank 300 L.	1	Set
07-05-02063	Main Fuel Tank 17000 L.	1	Set
07-05-02064	Fan.(ventlator)	1	Set
07-05-02065	Piping.	1	Set
07-05-02066	Control cubicle & Alarms.	1	Lot
07-05-02067	Installation Materials & Tools.	1	Set
07-05-02068	Documentation.	1	Set
	ANNEX SEVEN / Telecommunications Sub - sector:- DESERT OPTICAL FIBER PROJECT Site - Name:- SHEBCHA		
07-05-03020	SDH Transmission Equipment	1	lot

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
07-05-03021	STM-4 in ADM configuration The station equipment shall consist Racks, Subracks, Rack power distribution panel, power supply units, aggregate interface units, Tributary interface units as below, cross-connect matrix and multiplex unit, synchronization unit, DCC unit, EOW unit and control unit. The station equipment shall constitute and integrate as complete operational telecom transmission network. Required installation materials such DDF, ODF, MDF ,connectors ,cables, cable racks, fixing materials,....etc		lot
07-05-03030	Tributary interfaces		
07-05-03031	21x2Mb/s.	1	Unit
07-05-03032	3x34Mb/s	1	Unit
07-05-03033	STM-1 opt.		Unit
07-05-03034	STM-1 elect		Unit
07-05-03035	TV-Decoder.	1	
07-05-03040	PCM Equipment	60	V.F.line
07-05-03041	Racks, installation materials, cables		
07-05-03045	DC Power Plant		
07-05-03046	Rectifier system 48V / 40Ampere module (2+1) configuration.	1	unit
07-05-03047	48V,300 AH Lead-Acid Sealed-	1	Set
07-05-03048	Cabinet.	1	Set
07-05-03049	Installation materials , cables, tools.	1	Lot
07-05-03050	Documentation.	1	Set
07-05-03050	DC cable.	30	m
07-05-03055	Air Conditioners 24000 BTU Unit.	2	unit
07-05-03056	Piping & installation materials & fixtures.	1	set
07-05-03057	Documentation.	1	set
07-05-03060	Diesel Engine Generator	2	Unit
07-05-03061	Capacity 50 KVA, Triple Set.	1	Set
07-05-03062	Daily Fuel Tank 300 L.	1	Set
07-05-03063	Main Fuel Tank 17000 L	1	Set
07-05-03064	Fan.	1	Set
07-05-03065	Piping.	1	Set
07-05-03066	Control cubicle & Alarms.	1	Lot
07-05-03067	Installation Materials & Tools.	1	Set
07-05-03068	Documentation.	1	Set
	ANNEX SEVEN / Telecommunications Sub - sector:- DESERT OPTICAL FIBER PROJECT Site - Name:- NKHIB		
07-05-04020	SDH Transmission Equipment	1	

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
07-05-04021	STM-4 in ADM configuration The station equipment shall consist Racks, Subracks, Rack power distribution panel, power supply units, aggregate interface units, Tributary interface units as below, cross-connect matrix and multiplex unit, synchronization unit, DCC unit, EOW unit and control unit. The station equipment shall constitute and integrate as complete operational telecom transmission network. Required installation materials such DDF, ODF, MDF ,connectors ,cables, cable racks, fixing materials,....etc	1	
07-05-04030	Tributary interfaces		
07-05-04031	21x2Mb/s.	1	Unit
07-05-04032	3x34Mb/s	1	Unit
07-05-04033	STM-1 opt.		Unit
07-05-04034	STM-1 elect		Unit
07-05-04035	TV-Decoder.	1	
07-05-04040	PCM Equipment	60	V.F line
07-05-04041	Racks, installation materials, cables		
07-05-04045	DC Power Plant		
07-05-04046	Rectifier system 48V / 40 Ampers module (2+1) configuration.	1	unit
07-05-04047	48V,300 AH Lead-Acid Sealed-	1	set
07-05-04048	Cabinet.	1	set
07-05-04049	Installation materials , cables, tools.	1	lot
07-05-04050	Documentation.	1	Set
07-05-04155	Air Conditioners24000 BTU Unit.	2	unit
07-05-04156	Piping & installation materials & fixtures.	1	Set
07-05-04157	Documentation.	1	Set
07-05-04160	Diesel Engine Generator	2	unit
07-05-04161	Capacity 50 KVA, Triple Set.	1	Set
07-05-04162	Daily Fuel Tank. 300 L	1	Set
07-05-04163	Main Fuel Tank 17000 L	1	Set
07-05-04164	Fan.	1	Set
07-05-04165	Piping.	1	Set
07-05-04166	Control cubicle & Alarms.	1	lot
07-05-04167	Installation Materials & Tools.	1	Set
07-05-04168	Documentation.		
	ANNEX SEVEN / Telecommunications Sub - sector:- DESERT OPTICAL FIBER PROJECT Site - Name:-TALHA		
07-05-05020	SDH Transmission Equipment	1	lot

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
07-05-05021	STM-4 in ADM configuration The station equipment shall consist Racks, Subracks, Rack power distribution panel, power supply units, aggregate interface units, Tributary interface units as below, cross-connect matrix and multiplex unit, synchronization unit, DCC unit, EOW unit and control unit. The station equipment shall constitute and integrate as complete operational telecom transmission network. Required installation materials such DDF, ODF, MDF ,connectors ,cables, cable racks, fixing materials,....etc	1	lot
07-05-05030	Tributary interfaces		
07-05-05031	21x2Mb/s.	1	Unit
07-05-05032	3x34Mb/s		Unit
07-05-05033	STM-1 opt.		Unit
07-05-05034	STM-1 elect		Unit
07-05-05040	PCM Equipment	60	V.F line
07-05-05041	Racks, installation materials, cables		
07-05-05045	DC Power Plant		
07-05-05046	Rectifier system 48V / 40 Ampers module (2+1) configuration.	1	unit
07-05-05047	48V,300 AH Lead-Acid Sealed-	1	set
07-05-05048	Cabinet.	1	set
07-05-05049	Installation materials , cables, tools.	1	lot
07-05-05050	Documentation.	1	Set
07-05-05055	Air Conditioners 24000 BTU Unit.	2	unit
07-05-05056	Piping & installation materials & fixtures.	1	Set
07-05-05057	Documentation.	1	Set
07-05-05058	DC cable	30	m
07-05-05159	Diesel Engine Generator	2	unit
07-05-05160	Capacity 50 KVA, Triple Set.	1	Set
07-05-05161	Daily Fuel Tank 300 L.	1	Set
07-05-05162	Main Fuel Tank 17000 L.	1	Set
07-05-05163	Fan.	1	Set
07-05-05164	Piping.	1	Set
07-05-05165	Control cubicle & Alarms.	1	lot
07-05-05166	Installation Materials & Tools.	1	Set
07-05-05167	Documentation.	1	Set