

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار RATE	RATE IN WORDS	الإجمالي رقمًا Total in figures
1	TRENCHIG WORKS						
1.1	<p>Execution of telecommunication trench excavation for fiber optics cables regardless the type of the soil: rock, sand, concrete, base course, asphalt, pavement slabs of various types and colors, etc. (as per the specifications of MOHPW and Municipalities in the kingdom) drawings, and requirements of the responsible authorized engineer.</p> <p>price includes:</p> <ul style="list-style-type: none"> * Backfilling in layers not more than 20cm each intensive compacting. * Support excavation sides. * Transfer the excess outside the site to the allowed locations. * Backfilling with Sweileh red sand to protect the pipes 30 cm high from the excavation base. * Supply and install warning tape,& electronic identifiers. * Backfilling using either single size material , base course, cement treated base course, & concrete in any thickness for the following: 						
	SUB TOTAL PAGE 1						

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار	RATE IN WORDS	الإجمالي رقمًا	Total in figures
		UNIT	QTY	QTY.IN WORDS	RATE	RATE IN WORDS	Total in figures	
1.1.1	as above, trench 50 cm wide and 150 cm deep	LM	2,400	two thousand, four hundred				
1.1.2	as above, trench 50 cm wide and 100 cm deep	LM	36,000	thirty-six thousand				
1.1.3	as above, trench 50 cm wide and 80 cm deep	LM	2,400	two thousand, four hundred				
1.1.4	as above, trench 30 cm wide and 150 cm deep	LM	100	one hundred				
1.1.5	as above, trench 30 cm wide and 100 cm deep	LM	35,000	thirty-five thousand				
1.1.6	as above, trench 30 cm wide and 80 cm deep	LM	17,000	seventeen thousand				
	SUB TOTAL PAGE 2							

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار RATE	RATE IN WORDS	الإجمالي رقمًا Total in figures
1.2	<p>In Non-Urban Areas defined by the Engineer excavation for fiber optics cables trench regardless the type of the soil: rock, sand, concrete, base course, asphalt, pavement slabs of various types and colors, etc. (as per the specifications of MOHPW and Municipalities in the kingdom) drawings, and requirements of the responsible authorized engineer. price includes: * Backfilling in layers not more than 10cm each intensive compacting. * Support excavation sides. * Transfer the excess outside the site to the allowed locations. * Backfilling with Sweileh red sand to protect the pipes 30 cm high from the excavation base. * Supply and install warning tape,& electronic identifiers. * Backfilling using either single size material , base course, cement treated base course, & concrete in any thickness for the following:</p>						
	SUB TOTAL PAGE 3						

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار	RATE IN WORDS	الإجمالي رقمًا	Total in figures
1.2.1	as above, trench 50 cm wide and 150 cm deep	LM	3,000	three thousand				
1.2.2	as above, trench 50 cm wide and 100 cm deep	LM	23,000	twenty- three thousand				
1.2.3	as above, trench 50 cm wide and 80 cm deep	LM	500	five hundred				
1.2.4	as above, trench 30 cm wide and 150 cm deep	LM	100	one hundred				
1.2.5	as above, trench 30 cm wide and 100 cm deep	LM	27,000	twenty- seven thousand				
1.2.6	as above, trench 30 cm wide and 80 cm deep	LM	34,000	thirty-four thousand				
SUB TOTAL PAGE 4								

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار RATE	RATE IN WORDS	الإجمالي رقمًا Total in figures	
1.3	Execution of a micro-trench and restoration to the original position , egardless the type of soil and surface as per the specifications of MOHPW and Municipalities in the kingdom, and supply and installation of the warning tape, electronic identifiers.							
1.3.1	as above, trench for 20 cm wide and 100 cm deep	LM	40,000	forty thousand				
1.3.2	as above, trench for 20 cm wide and 80 cm deep	LM	40,000	forty thousand				
1.3.3	as above, trench for 20 cm wide and 60 cm deep	LM	500	five hundred				
1.3.4	as above, trench for 15 cm wide and 80 cm deep	LM	49,000	forty-nine thousand				
1.3.5	as above, trench for 15 cm wide and 60 cm deep	LM	500	five hundred				
	SUB TOTAL PAGE 5							

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار	RATE IN WORDS	الإجمالي رقمًا	Total in figures
1.4	<p>Trenchless excavation for one duct telecommunication in asphalted streets/railway with all required soil boring. Price includes all necessary work and all accessories to install the main duct & sub ducts. The execution using horizontal directional drilling .The contractor shall provide all materials, equipment, and facilities required, Maintain proper alignment and elevation of the borehole throughout the directional drilling operation. The method used must conform to the requirements of all applicable permits.</p>	LM	500	five hundred				
SUB TOTAL PAGE 6								

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار RATE	RATE IN WORDS	الإجمالي رقمًا Total in figures	
1.5	<p>Restore the terrain to it's original status before excavation</p> <p>*Supply and execute a layer of hot mix Asphalt 7cm thickness after compacting to reach a degree of 98% (according to Marshal Test) for all areas where Asphalted layer that should be removed) to meet the requirements of the responsible authorities .</p> <p>(and to re-instate the terrain to original status using the finisher with full cleanness.</p> <p>Price includes : liquid asphalt (MC 70) at the average of 1.5 KG /m2 approx.</p>							
1.5.1	as above, trench excavation 50 cm wide	LM	85,400	eighty-five thousand, four hundred				
1.5.2	as above, trench excavation 30 cm wide	LM	109,000	one hundred nine thousand				
1.5.3	as above, trench excavation 20 cm wide	LM	60,000	sixty thousand				
	SUB TOTAL PAGE 7							

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار	RATE IN WORDS	الإجمالي رقمًا	Total in figures
1.5.4	as above, trench excavation 15 cm wide	LM	49,000	forty-nine thousand				
1.6	Restore the terrain to it's original status before excavation Supply and execute pavement slabs of various types and colors, or concrete ground.as per specification and contract conditions							
1.6.1	as above, trench for 50 cm wide	LM	6,400	six thousand, four hundred				
1.6.2	as above, trench for 30 cm wide	LM	1,000	one thousand				
1.6.3	as above, trench for 15 cm wide and 80 cm deep	LM	500	five hundred				
1.7	Street cross sections restore the terrain to it's original status before excavation as required from MOHPW and Municipalities in the kingdom) Supply and execute a layer of hot mix Asphalt after compacting to reach a degree of 98% (according to Marshal Test). REFER To ANNEX G	M2	500	five hundred				
SUB TOTAL PAGE 8								

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار RATE	RATE IN WORDS	الإجمالي رقمًا Total in figures
1.8	Supply and cast in place reinforced concrete with minimum cube crushing strength of 200 Kg/cm2 after 28 days, to protect the ducts where trench's route crosses flood's routes or valleys, and where required according to the Engineer's instructions. Price includes all shuttering works.	M3	75	seventy-five			
1.9	CLEAN PREVIOUS EXISTING ROUTES						
	Prepare and Clean Existing Sub-Duct, blew Plastic rope and all requirements works and material to be ready to install a new Optical Fiber Cable according the Contracts Specifications and Engineer's approval.	LM	1,000	one thousand			
	SUB TOTAL PAGE 9						

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار	RATE IN WORDS	الإجمالي رقمًا	Total in figures
2	CHAMBERS							
2.1	<p>Supply, deliver ,install and execute a pre-cast man-holes (120*68*82cm) as internal dimensions with base and walls of 15 cm thickness, with a fair-face surface made from reinforced concrete with a minimum cube crushing strength of 260 kg/cm2 after 28 days</p> <p>Prices include excavation, material, shuttering, pouring, reinforcement steel , mesh accessories, fixing the required plastic pipes, manhole's mesh and the metallic manhole cover that should be lockable and of heavy type 40 ton load waterproof and backfilling around the manhole, according to the specifications, drawings and the Supervising Engineer's instructions.</p>	NO	534	five hundred thirty-four				
	SUB TOTAL PAGE10							

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار	RATE IN WORDS	الإجمالي رقمًا	Total in figures
		UNIT	QTY	QTY.IN WORDS	RATE	RATE IN WORDS	Total in figures	
2.2	Supply, deliver ,install and execute a pre-cast man-holes (100*100*100cm) as internal dimensions with base and walls of 20 cm thickness, with a fair-face surface made from reinforced concrete with a minimum cube crushing strength of 250 kg/cm2 after 28 days Prices include excavation, material, shuttering, pouring, reinforcement steel , mesh accessories, fixing the required plastic pipes, manhole's mesh and the metallic manhole cover that should be lockable and of heavy type 40 ton load waterproof and backfilling around the manhole, according to the specifications, drawings and the Supervising Engineer's instructions.	NO	200	two hundred				
SUB TOTAL PAGE11								

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار	RATE IN WORDS	الإجمالي رقمًا	Total in figures
		UNIT	QTY	QTY.IN WORDS	RATE	RATE IN WORDS	Total in figures	
2.3	Supply, deliver, install and execute a pre-cast hand-holes (91.5*46*82cm) as internal dimensions with base and walls of 15 cm thickness, with a fair-face surface made from reinforced concrete with a minimum cube crushing strength of 250 kg/cm ² after 28 days Prices include excavation, material, shuttering, pouring, reinforcement steel, mesh accessories, fixing the required plastic pipes, hand-hole's mesh and the metallic hand-hole cover that should be lockable and of heavy type 40 ton load waterproof and backfilling around the hand-hole, according to the specifications , drawings and the Supervising Engineer's instructions.	NO	760	seven hundred sixty				
SUB TOTAL PAGE12								

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار RATE	RATE IN WORDS	الإجمالي رقمًا Total in figures	
2.4	Supply, Deliver, install and execute a pull boxes (50*26*50 cm) as internal dimensions with base and walls of 10 cm thickness with fair-face surface finish made from reinforced concrete with minimum cube crushing strength of 200 kg/cm ² after 28 days, the cover shall be reinforced concrete type of 10cm thickness, with all related accessories according to specifications, drawings, and Engineer's instruction	NO	320	three hundred twenty				
3	PIPES & CONDUITES							
3.1	Supply and install a HDPE (5) sub-ducts including trace wire and pull plastic wire for pulling inside each subduct, , different colors inside one corrugated or ribbed duct, One HDPE duct inside the trench, as per specifications, drawings, and the Engineer's instructions. REFER To ANNEX B5 *price include Flanges, accessories, fittings, and all material required for installation the main ducts and sub ducts.	LM	285,300	two hundred eighty- five thousand, three hundred				
	SUB TOTAL PAGE13							

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار	RATE IN WORDS	الإجمالي رقمًا	Total in figures
		UNIT	QTY	QTY.IN WORDS	RATE	RATE IN WORDS	Total in figures	
3.2	Supply and install a HDPE (3) sub-ducts different colors including trace wire and pull plastic wire for pulling insude each subduct inside One corrugated or ribbed duct, one HDPE duct inside the trench, as per specifications, drawings, and the Engineer's instructions .REFER To ANNEX B5 *price includes the Flanges, accessories, fittings, and all material required for installation the main ducts and sub ducts.	LM	170,000	one hundred seventy thousand				
3.3	Supply and install HDPE pipes (32mm internal diameter) and all related accessories according to specifications and instructions Supervising .engineer	LM	1,500	one thousand, five hundred				
3.4	Supply and install white color UPVC pipes (32mm internal diameter) with all related accessories (joints, fittings, connectors...etc..) to be installed where required in accordance with the Supervising Engineer's guidance .	LM	1,000	one thousand				
SUB TOTAL PAGE 14								

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار	RATE IN WORDS	الإجمالي رقمًا	Total in figures
3.5	Supply and install 6 inches galvanized steel pipes Class B, to be used in railway crossings and bridge crossings, if required as per specifications, drawings, the requirements of the Supervising engineer.	LM	1,000	one thousand				
3.6	Supply and install Ø 4" galvanized pipe Class A to be fixed where required. including all installed and required the supervising engineer's guidance.	LM	200	two hundred				
3.7	Supply and install Ø 1" galvanized pipe Class A to be fixed where required. including all installed and required the Supervising Engineer's guidance .	LM	50	fifty				
3.8	Supply and install galvanized U-guard cable protector including all related accessories, as per specifications, drawings, and instructions of the Engineer.	LM	1,500	one thousand, five hundred				
3.9	Supply and install cable tray measuring (150 x10), as per drawings, specifications and instructions of the Engineer	LM	300	three hundred				
SUB TOTAL PAGE 15								

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار RATE	RATE IN WORDS	الإجمالي رقمًا Total in figures
4	OPTICAL FIBER CALES						
	Supply and Install loose Optical Fiber Cable OS2 With all related accessories and fittings as per specifications . REFER To ANNEX B-1						
4.1	Optical Fiber Cable 144 core.	LM	4,300	Four Thousand, Three Hundred			
4.2	Optical Fiber Cable 96 core.	LM	285,000	Two Hundred Eighty- Five Thousand,			
4.3	Optical Fiber Cable 72 core	LM	1,300	One Thousand, Three Hundred			
4.4	Optical Fiber Cable 48 core.	LM	10,000	Ten Thousand,			
	SUB TOTAL PAGE 16						

ITEM	DESCRIPTION	الوحدة	الكمية		السعر بالدولار		الإجمالي رقمًا	
		UNIT	QTY	QTY.IN WORDS	RATE	RATE IN WORDS	Total in figures	
4.5	Optical Fiber Cable 24 core.	LM	88,000	Eighty- Eight Thousand				
5	SPLICING & ENCLOSURES							
	Supply and install a splicing enclosure for optical fiber cables with all related splicing works, tests, to prepare the cable for service with all accessories and fittings as per specification and the engineer instruction :							
5.1	Splicing Enclosure for Optical Fiber Cable 144 core.	NO	13	Thirteen				
5.2	Splicing Enclosure for Optical Fiber Cable 96 core.	NO	177	One Hundred Seventy- Seven				
5.3	Splicing Enclosure for Optical Fiber Cable 72 core.	NO	19	Nineteen				
5.4	Splicing Enclosure for Optical Fiber Cable 48 core.	NO	21	Twenty- One				
5.5	Splicing Enclosure for Optical Fiber Cable 24 core.	NO	100	One Hundred				
	SUB TOTAL PAGE 17							

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار RATE	RATE IN WORDS	الإجمالي رقمًا Total in figures
6	OPTICAL DISTRIBUTION FRAME						
	Complete set of Optical Distribution Frame including all related components, pig tails, connectors,...etc. and all required materials and works to prepared the ODF for service as per specification and the engineer instruction:						
6.1	Optical Distribution Frame for 144 fibers cable.	NO	2	Two			
6.2	Optical Distribution Frame for 96 fibers cable.	NO	56	Fifty-Six			
6.3	Optical Distribution Frame for 72 fibers cable.	NO	1	One			
6.4	Optical Distribution Frame for 48 fibers cable.	NO	1	One			
6.5	Optical Distribution Frame for 24 fibers cable.	NO	320	Three Hundred Twenty			
	SUB TOTAL PAGE 18						

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار RATE	RATE IN WORDS	الإجمالي رقمًا Total in figures	
6.6	SC/LC connecter.	LM	1	One				
6.7	Supply a single mode duplex patch cord 5m with SC/LC connecter.	LM	1	One				
6.8	Supply a single mode duplex patch cord 3m with SC/LC connecter .	LM	1	One				
7	NETWORK CABINET							
	Supply and install network cabinets with cable organizer, power distribution unit (4 outlets) with glass door, lamp, lock , & aircondion..							
7.1	Supply and Install a network cabinet (rack)19" standard, 42U	NO	13	Thirteen				
7.2	Supply and Install a network cabinet (rack)19" standard, 9U	NO	320	Three Hundred Twenty				
	SUB TOTAL PAGE 19							

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار RATE	RATE IN WORDS	الإجمالي رقمًا Total in figures
8	MOBILZATION						
	The contractor shall supply and deliver to the owner the following items						
8.1	Two (Qty 2) cars (4x4) model 2019 as specified in special conditions	Month	18	Eighteen			
8.2	Two (Qty 2) car pickup (4x4) model 2019 as specified in special conditions	Month	18	Eighteen			
8.3	One (Qty 1) Office for consultant Engineers as specified in special conditions	Month	18	Eighteen			
	SUB TOTAL PAGE 20						

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار RATE	RATE IN WORDS	الإجمالي رقمًا Total in figures
GROUND TOTAL SHEET							
		الإجمالي كتابة Total in words				الإجمالي رقمًا Total in figures	
	SUBTOTAL PAGE 1						
	SUBTOTAL PAGE 2						
	SUBTOTAL PAGE 3						
	SUBTOTAL PAGE 4						
	SUBTOTAL PAGE 5						
	SUBTOTAL PAGE 6						
	SUBTOTAL PAGE 7						
	SUBTOTAL PAGE 8						
	SUBTOTAL PAGE 9						
	SUBTOTAL PAGE 10						
	SUBTOTAL PAGE 11						
	SUBTOTAL PAGE 12						
	SUBTOTAL PAGE 13						
	SUBTOTAL PAGE 14						
	SUBTOTAL PAGE 15						
	SUBTOTAL PAGE 16						

ITEM	DESCRIPTION	الوحدة	الكمية	QTY.IN WORDS	السعر بالدولار RATE	RATE IN WORDS	الإجمالي رقمًا Total in figures	
	SUBTOTAL PAGE 17							
	SUBTOTAL PAGE 18							
	SUBTOTAL PAGE 19							
	SUBTOTAL PAGE 20							
	GRAND TOTAL						#VALUE!	
END OD BILL OF QUANTITY								