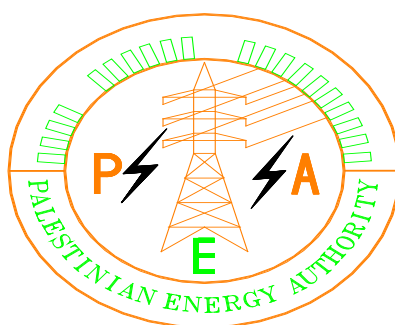


# The Rehabilitation of Gaza Electricity Distribution and Transport Networks PAL-10-00063805



## INVITATION TO BID

ITB-2014-103: (Package 1–Lot #8) Procurement, Supply and Commissioning of Steel and Electrical Materials for Um Alaymon Project in Gaza, oPt

## BILL OF QUANTITIES

## Bill of Quantity : Part 1

### Supply the listed below items ( Steel Components)

Item	Description	Unit	Qty.	Unit Rate (US\$)	Total Cost (US\$)
	The Contract entails supply of the listed below items (22 kV Distribution Line & 0.4 kV Low Voltage Steel Components) for Rehabilitation Networks in Gaza Governorates .				
	All Materials must Adhere to technical specifications and drawings as per the international standards subject to engineer's approval.				
	All items will be approved through submittal of material approval from substantiated by brochures , factory specifications and sample according to approved material supply schedule.				
<b>A1.</b>	<b>Steel Poles :</b>				
A1.1	Hot Galvanized Lattice Steel Pole 80/90 , 12m long Including Hot Galvanized Steel Bolts ,Washers and Nuts , (According to Attached Drawing No. K2103)	No.	1		
	<b>Total of Steel Poles.....Carried to the main summary</b>				
<b>A2.</b>	<b>Steel Bases</b>				
A2.1	Hot Galvanized Steel Base for Lattice Steel Pole 80/90 , 2.25m long , (According to Attached Drawing No. K109)	No.	1		
	<b>Total of Steel Bases.....Carried to the main summary</b>				
<b>A3.</b>	<b>Steel Arms</b>				
A3.1	Hot Galvanized Lattice Steel Pole Tension Side Arm K61 , Including Hot Galvanized Steel Bolts ,Washers and Nuts , (According to Attached Drawing No. K61)	No.	1		
A3.2	Hot Galvanized Transformer Isolator Side Arm K1558 , Including Hot Galvanized Steel Bolts ,Washers and Nuts , (According to Attached Drawing No. K1558)	No.	1		
A3.3	Hot Galvanized Line Isolator Central Arm K1561 (TOP) , Including Hot Galvanized Steel Bolts ,Washers and Nuts , (According to Attached Drawing No. K1561)	No.	1		
A3.4	Hot Galvanized Auxiliary Steel Arm K160/3_B , Including Hot Galvanized Steel Bolts ,Washers and Nuts , (According to Attached Drawing No. K160/3B)	No.	2		
A3.5	Hot Galvanized Protection Arm K82A , (According to Attached Drawing No. K82_8A)	No.	2		
A3.6	Hot Galvanized Anti-Climbing Steel Arm K113/8 for L.S.P , (According to Attached Drawing No. K113/8)	Set	1		
	<b>Total of Steel Arms.....Carried to the main summary</b>				

Item	Description	Unit	Qty.	Unit Rate (US\$)	Total Cost (US\$)
<b>A4.</b>	<b>Steel Bolts</b>				
A4.1	Hot Galvanized Steel Bolt 7/8" x 45 mm Long with Nut & Washers	No.	<b>24</b>		
A4.2	Hot Galvanized Steel Bolt 7/8" x 50 mm Long with Nut & Washers	No.	<b>4</b>		
A4.3	Hot Galvanized Steel Bolt 3/4" x 40 mm Long with Nut & Washers	No.	<b>12</b>		
A4.4	Hot Galvanized Steel Bolt 5/8" x 40 mm Long with Nut & Washers	No.	<b>50</b>		
A4.5	Hot Galvanized Steel Bolt 1/2" x 35 mm Long with Nut & Washers	No.	<b>50</b>		
A4.6	Hot Galvanized V-Shaped Steel Bolt 1/2" x 140 mm Long with Nut & Washers , (According to Attached Drawing No. A2)	No.	<b>8</b>		
A4.7	Hot Dip Galvanized V - Shaped Angle Clamp 3/8" , 32*65 mm2 Complete with Nuts and Washers , (According to Attached Drawing No. X1)	No.	<b>4</b>		
A4.8	Hot Dip Galvanized U8 Clamp , 1/2" Complete with Nuts and Washers , (According to Attached Drawing No. B19)	No	<b>4</b>		
	<b>Total of Steel Bolts.....Carried to the main summary</b>				
<b>A5.</b>	<b>Steel Accessories</b>				
A5.1	Hot Galvanized Plate for Medium Voltage Cable , Including Hot Galvanized Steel Bolts ,Washers and Nuts to Connect with the Pole , (According to Attached Drawing No.PMV_250)	No	<b>3</b>		
A5.2	Hot Galvanized Steel Cable Guard to Protect the Cable 200x20x10 cm , (According to the Technical Guarantees and Attached Drawing No. SCG_200)	No	<b>2</b>		
	<b>Total of Steel Accessories.....Carried to the main summary</b>				

Item	Description	Total Cost (US\$)
A1	Total of Steel Poles	
A2	Total of Steel Bases	
A3	Total of Steel Arms	
A4	Total of Steel Bolts	
A5	Total of Steel Accessories	
Total (US\$)		

**Bill of Quantity : Part 2****Supply the listed below items ( Wires , Cables )**

Item	Description	Unit	Qty.	Unit Rate (US\$)	Total Cost (US\$)
	<p>The Contract entails supply of the listed below items (22 kV Distribution Line &amp; 0.4 kV Low Voltage Electrical Components) for Rehabilitation Networks in Gaza Governorates .</p> <p>All Materials must Adhere to technical specifications and drawings as per the international standards subject to engineer's approval.</p> <p>All items will be approved through submittal of material approval from substantiated by brochures , factory specifications and sample according to approved material supply schedule.</p>				
<b>B1</b>	<b>M.V Cables</b>				
B1.1	Underground Medium Voltage Cable 12/20 (24) Kv , Single Core with Circular Stranded Compacted Aluminium Conductor (1x240/25mm2), XLPE Insulated , with Copper Wire Shield 16mm2 and PVC Outer Sheathed , (According to the Technical Guarantees No. XLPEA_240)	Km	<b>4.2</b>		
	<b>Total of M.V Cables .....Carried to the main summary</b>				
<b>B2</b>	<b>Termination Kits and Straight Joints</b>				
B2.1	36kv Heat Shrinkable Outdoor Termination Kit For 12/20 Kv , Single Core Aluminium Conductor (1x240/25mm2), XLPE , (Set for one Phase), with Suitable Mechanical Compression Lugs , (According to the Technical Guarantees and Attached Drawing No.OT36_240)	No	<b>23</b>		
B2.2	630A Indoor Termination Kit (Tee Connector_400 Series) For 12/20 Kv , Single Core Conductor (1x240/25mm2), XLPE ,(Set for one Phase) , (According to the Technical Guarantees and Attached Drawing No. IT24_240)	No	<b>9</b>		
B2.3	Heat Shrinkable Straight Joint For 12/20 Kv , Single Core Conductor (1x240/25mm2), XLPE , (Set for one Phase) including Mechanical Joint 240 mm2 and 25 mm2 , (According to the Technical Guarantees and Attached Drawing No. SJ24_240)	No	<b>10</b>		
	<b>Total of Termination Kits and Straight Joints .....Carried to the main summary</b>				

Item	Description	Total Cost (US\$)
<b>B1</b>	<b>Total of M.V Cables</b>	
<b>B2</b>	<b>Total of Termination Kits and Straight Joints</b>	
<b>Total (US\$)</b>		

## Bill of Quantity : Part 3

### Supply the listed below items (Accessories)

Item	Description	Unit	Qty.	Unit Rate (US\$)	Total Cost (US\$)
	<p>The Contract entails supply of the listed below items (22 kV Distribution Line &amp; 0.4 kV Low Voltage Electrical Components) for Rehabilitation Networks in Gaza Governorates .</p> <p>All Materials must Adhere to technical specifications and drawings as per the international standards subject to engineer's approval.</p> <p>All items will be approved through submittal of material approval from substantiated by brochures , factory specifications and sample according to approved material supply schedule.</p>				
<b>C1</b>	<b>M.V Isolating Switch</b>				
C1.1	36 kV, 3Phase Switch Disconnecter with built-in arc interrupter , Complete including Master Key Lock ,Necessary Hot Galvanized Bolts, (According to the Technical Guarantees and Attached Drawing No.IS_36)	No.	<b>10</b>		
	<b>Total of M.V Isolating Switch .....Carried to the main summary</b>				
<b>C2</b>	<b>Surge Arrestor</b>				
C2.1	Outdoor Metal Oxide Surge Arrestor M.C.O.V 19.5 KV with Ground Lead Disconnecter included Brackets and Cable (Set for one Phase) , (According to the Technical Guarantees and Attached Drawing No. SA_19)	No.	<b>3</b>		
	<b>Total of Surge Arrestor .....Carried to the main summary</b>				
<b>C3.</b>	<b>Insulators</b>				
C3.1	22kv Toughened Tension Glass Disk Insulator with Ball and Socket with Creepage Distance 320 mm , (According to the Technical Guarantees and Attached Drawing No. GDI_320)	No.	<b>27</b>		
C3.2	Fork Ball Hook 16mm (SOCKET EYES-TYPE-A) , (According to the Technical Guarantees and Attached Drawing No. FBH_16)	No.	<b>9</b>		
C3.3	Steel Twisted Clamp with Ball Eyes , (According to the Technical Guarantees and Attached Drawing No. STC_151)	Set	<b>6</b>		
C3.4	Low Tension Shackle Insulator Unit Complete for Earth line , Including Hot Galvanized Steel Bolt ,Washer ,Nut to Connect with the Pole (According to the Technical Guarantees and Attached Drawing No. LTPI_01)	Unit	<b>2</b>		
	<b>Total of Insulators .....Carried to the main summary</b>				

Item	Description	Unit	Qty.	Unit Rate (US\$)	Total Cost (US\$)
<b>C4</b>	<b>Clamps</b>				
C4.1	Dead End Clamp for Wire 95/15 mm2 ACSR , (Strain Clamp) , (According to the Technical Guarantees and Attached Drawing No. DET_95)	No.	<b>9</b>		
C4.2	Parallel Groove Clamp CU (10-95mm2) / CU (10-95mm2) , (According to the Technical Guarantees and Attached Drawing No.CPGC_95)	No	<b>4</b>		
C4.3	Dead End Clamp AL (50-70mm2) / AL (50-70mm2) , (According to the Technical Guarantees and Attached Drawing No.ADEC_70)	No.	<b>2</b>		
C4.4	Parallel Groove Clamp AL (16-120mm2) / AL (16-120mm2) , (According to the Technical Guarantees and Attached Drawing No.APGC_120)	No.	<b>25</b>		
	<b>Total of Clamps .....Carried to the main summary</b>				
<b>C5</b>	<b>Lugs</b>				
C5.1	Compression Terminal Lug For 70 mm2 AL With 13 mm Hole , (According to the Technical Guarantees and Attached Drawing No. CLA_70)	No	<b>2</b>		
C5.2	Compression Terminal Lug For 35 mm2 CU With 13 mm Hole , (According to the Technical Guarantees and Attached Drawing No. CLC_35)	No	<b>15</b>		
C5.3	Compression Terminal Lug For 70 mm2 CU With 13 mm Hole , (According to the Technical Guarantees and Attached Drawing No. CLC_70)	No	<b>12</b>		
C5.4	Compression Terminal Lug For 120 mm2 AL/CU With 13 mm Hole , (According to the Technical Guarantees and Attached Drawing No. CLAC_120)	No	<b>9</b>		
C5.5	Compression Terminal Lug For 240 mm2 AL/CU With 13 mm Hole , (According to the Technical Guarantees and Attached Drawing No. CLAC_240)	No	<b>6</b>		
	<b>Total of Lugs .....Carried to the main summary</b>				
<b>C6.</b>	<b>Earthing</b>				
C6.1	Earth Rod 15mm Diameter 1.5 m Long , (According to the Technical Guarantees No. ER_15)	No	<b>3</b>		
C6.2	Earth Rod Connection Clamp , (According to the Technical Guarantees and Attached Drawing No. ERC_15)	No	<b>2</b>		
C6.3	Earth Rod Joint 15 mm Diameter , (According to the Technical Guarantees No. ERJ_15)	No	<b>2</b>		
	<b>Total of Earthing .....Carried to the main summary</b>				

Item	Description	Unit	Qty.	Unit Rate (US\$)	Total Cost (US\$)
C7	Another Accessories				
C7.1	Flame Retardant Heat Shrinkable Tube with Shrink 50/16 , (According to the Technical Guarantees No. HST50_16)	m	6		
C7.2	Stainless Steel Band 12.7mm width , (According to the Technical Guarantees and Attached Drawing No. STB_204)	m	5		
C7.3	Stainless Steel Ear-Lokt Buckle 12.7mm width , (According to the Technical Guarantees and Attached Drawing No. STB_254)	No	5		
C7.4	Cable Clamp to Fastening of single-conductor cable (Cable Outer Dia. 36-52 mm) , Including Hot Galvanized Steel Bolts ,Washers ,Nuts to Connect with the Plate , (According to the Technical Guarantees and Attached Drawing No. CC_52)	No	6		
C7.5	Neutral Nylon Cable tie , 50 cm long , (According to the Technical Guarantees No.NCT_50)	No	40		
C7.6	Warning tape (250m long) , (According to the Technical Guarantees and Attached Drawing No. WT_250)	Roll	6		
C7.7	Electrical Insulation Black Tape , (According to the Technical Guarantees No. EBT_20)	Roll	5		
	Total of Accessories .....Carried to the main summary				
Item	Description	Total Cost (US\$)			
C1	Total of M.V Isolating Switch				
C2	Total of Surge Arrestor				
C3	Total of Insulators				
C4	Total of Clamps				
C5	Total of Lugs				
C6	Total of Earthing				
C7	Total of Another Accessories				
Total (US\$)					

## INVITATION TO BID

ITB-2014-103: (Package 1–Lot #8) Procurement, Supply and Commissioning of Steel and Electrical Materials  
for Um Alaymon Project in Gaza

### Summary

Item	Description	Amount (US\$)
1	Total of Part 1 - Steel Components	
2	Total of Part 2 - Wires & Cables	
3	Total of Part 3 - Accessories	
	Transportation of Goods into Gaza Area ( GEDCO Warehouses)	
	Total of Works (Part 1+Part 2+ Part 3)	
	Discount Rate (    %)	
	Discount Amount	
	Net Total	

NET TOTAL SUM (in words):

AUTHORIZED :

TITLE :

SIGNATURE :

DATE :

	Transportation Item	Qty.	Total in (US\$)
1.1	STEP 1: Transportation of Goods to Tulkarem area	job	
1.2	STEP 2: Transportation of Goods from Tulkarem into Gaza	job	