

SECTION 9
PRICE SCHEDULE
(Bill of Quantities)

- 1 .The Price Schedule must provide a detailed cost breakdown for each item.

- 2.Technical descriptions for each proposed item must provide sufficient detail to allow UNDP to determine compliance of Bid with specifications as per Schedule of Requirements and Technical Specifications of this ITB.

3. All prices/rates quoted must be exclusive of all taxes, since the United Nations, including its subsidiary organs, is exempt from taxes.

4. In addition to the hard copy, if possible please provide also the information on CD

Item	Description	Unit	Qty.	Unit Rate	Amount
Bill No. 1 : Installation , Connection and Testing					
	<p>All installation works must be according to technical specifications, drawings, and engineer's instruction. Price shall include the following :</p> <p>1- All equipments, machines, ... etc. needed for proper execution and completion of work activities.</p> <p>2- Excavation, and casting concrete B200 for steel poles bases along with relevant tests of concrete compressive strength cubes.</p> <p>3-Excavation and backfilling with approved material for wooden poles.</p> <p>4- Preparation of proper access to the work site as may deem necessary.</p> <p>5- Repairing of all damages may occur to the existing facilities during the implementation.</p> <p>6- Dismantle and removal of any damaged poles , wires, surplus materials, etc. then transport to locations nominated by engineer.</p> <p>7- All necessary tests according to the technical specification and the engineer's instructions.</p> <p>8-Transfer all surplus materials to the agreed dump sites according to supervisor instruction.</p> <p>8- All necessary shop drawings and as built drawings to the engineer's approval.</p>				
1	Installation of Steel Poles				
1.1.1	Install Hot Galvanized Lattice Steel Pole 140/150 12m long , the Item Include installation of Steel Base 6m long ,Casting Concrete Foundation (3.8*3.8*2.5)m3 to fix the Base , Steel Bolts , Nuts , Washers & with all needed for Fixing & Installation .	No.	1		
1.1.2	Install Hot Galvanized Lattice Steel Pole 140/150 12m long , the Item Include installation of Steel Base 2.25m long ,Casting Concrete Foundation (3*3*2)m3 to fix the Base , Steel Bolts , Nuts , Washers with all needed for Fixing & Installation .	No.	2		
1.1.3	Install Hot Galvanized Lattice Steel Pole 140/150 12m long , the Item Include Steel Bolts , Nuts , Washers with all needed for Fixing & Installation .	No.	1		
1.1.4	Install Hot Galvanized Lattice Steel Pole 120/130 12m long , the Item Include Installation of Steel Base 5m long ,Casting Concrete Foundation (3.1*3.1*2.5)m3 to fix the Base , Steel Bolts , Nuts , Washers with all needed for Fixing & Installation .	No.	1		
1.1.5	Install Hot Galvanized Lattice Steel Pole 120/130 12m long , the Item Include Installation of Steel Base 2.25m long ,Casting Concrete Foundation (2.75*2.75*2) to fix the Base, Steel Bolts , Nuts , Washers with all needed for Fixing & Installation .	No.	8		
1.1.6	Install Hot Galvanized Lattice Steel Pole 90/110 12m long , the Item Include Installation of Steel Base 2.25m long ,Casting Concrete Foundation (2.35*2.35*2)m3 to fix the Base , Steel Bolts Nuts , Washers with all needed for Fixing & Installation .	No.	5		
1.1.7	Install Hot Galvanized Lattice Steel Pole 80/90 12m long , the Item Include Installation of Steel Base 5m long ,Casting Concrete Foundation (2.2*2.2*2.5)m3 to fix the Base , Steel Bolts , Nuts , Washers with all needed for Fixing & Installation .	No.	1		
1.1.8	Install Hot Galvanized Lattice Steel Pole 80/90 12m long , the Item Include Installation of Steel Base 2.25m long ,Casting Concrete Foundation (2*2*2)m3 to fix the Base , Steel Bolts , Nuts , Washer with all needed for Fixing & Installation .	No.	5		

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Item	Description	Unit	Qty.	Unit Rate	Amount
1.1.9	Install Hot Galvanized Lattice Steel Pole 70/80 12m long , the Item Include Installation of Steel Base 5m long ,Casting Concrete Foundation (2*2*2.5)m3 to fix the Base, Steel Bolts , Nuts , Washers with all needed for Fixing & Installation .	No.	7		
1.1.10	Install Hot Galvanized Lattice Steel Pole 70/80 12m long , the Item Include Installation of Steel Base 2.25m long with Pouring Concrete Foundation(1.65*1.65*2)m3 to fixing the Base , Steel Bolts , Nuts , Washers with all needed for Fixing & Installation .	No.	11		
1.1.11	Install Hot Galvanized Channel Steel Pole U14 12m long , the Item Include Installation of Steel Base 2.15m long ,Casting Concrete Foundation(1.4*1.4*2)m3 to fix the Base , Steel Bolts , Nuts , Washers with all needed for Fixing & Installation .	No.	31		
1.1.12	Install Hot Galvanized Channel Steel Pole U14 , 9m long , the Item Include Casting Concrete Foundation(1.2*1.2*1.5)m3 to fix the Pole with all needed for Fixing & Installation .	No.	1		
1.1.13	Install Hot Galvanized Lattice Steel Pole Extension 1 m long , the Item Include Steel Bolts , Nuts & Washers with all needed for Fixing & Installation .	No.	2		
2	Installation of M.V Wooden Poles				
1.2.1	Install Wooden Pole 14 m Long Including Omega with all needed for Fixing & Installation .	No.	24		
3	Installation of Steel Arms				
1.3.1	Install Hot Galvanized Lattice Pole Steel Arm K2231 for Double Line Network , the Item Include Steel Bolts , Nuts & Washers with all needed for Fixing & Installation .	No.	10		
1.3.2	Ditto But K2232	No.	9		
1.3.3	Ditto But K2233	No.	10		
1.3.4	Ditto But K2234	No.	1		
1.3.5	Ditto But K2564/0	No.	1		
1.3.6	Ditto But K2564/1	No.	1		
1.3.7	Ditto But K2564/2	No.	1		
1.3.8	Install Hot Galvanized Lattice Pole Tension Central Arm K1 , the Item Include Steel Bolts , Nuts & Washers with all needed for Fixing & Installation .	No.	8		
1.3.9	Ditto But K2	No.	3		
1.3.10	Ditto But K3	No.	1		
1.3.11	Ditto But K4	No.	1		
1.3.12	Ditto But K9 (Single)	No.	1		
1.3.13	Install Hot Galvanized Lattice Pole Tension Side Arm K61 , the Item Include Steel Bolts , Nuts & Washers with all needed for Fixing & Installation .	No.	1		
1.3.14	Ditto But K63	No.	7		
1.3.15	Ditto But K12801	No.	2		
1.3.16	Install Hot Galvanized Lattice Pole Suspension Side Arm , K11404C , the Item Include Steel Bolts , Nuts & Washers with all needed for Fixing & Installation .	No.	1		
1.3.17	Ditto But K10601C	No.	3		
1.3.18	Install Hot Galvanized Lattice Pole Suspension Central Arm K29 , the Item Include Steel Bolts , Nuts & Washers with all needed for Fixing & Installation .	No.	3		
1.3.19	Install Hot Galvanized C.S.P Suspension Side Arm K14521C , the Item Include Steel Bolts , Nuts & Washers with all needed for Fixing & Installation .	No.	9		

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Item	Description	Unit	Qty.	Unit Rate	Amount
1.3.20	Ditto But K10354C	No.	7		
1.3.21	Ditto But K10155C	No.	5		
1.3.22	Ditto But K10045C	No.	1		
1.3.23	Ditto But K66	No.	5		
1.3.24	Install Hot Galvanized C.S.P Suspension Central Arm K41 , the Item Include Steel Bolts , Nuts & Washers with all needed for Fixing & Installation .	No.	4		
1.3.25	Ditto But K42	No.	3		
1.3.26	Install Hot Galvanized Wooden Pole Arm K23 , the Item Include Steel Bolts , Nuts & Washers with all needed for Fixing & Installation .	No.	21		
1.3.27	Install Hot Galvanized Transformer Isolator Side Arm K1555 , the Item Include Steel Bolts , Nuts & Washers with all needed for Fixing & Installation .	No.	3		
1.3.28	Ditto But K1558	No.	15		
1.3.29	Ditto But K1561 (TOP)	No.	2		
1.3.30	Install Hot Galvanized Auxiliary Arm K1743 , the Item Include Steel Bolts , Nuts & Washers with all needed for Fixing & Installation .	No.	3		
1.3.31	Ditto But K12171/1	No.	2		
1.3.32	Ditto But K12171/2	No.	2		
1.3.33	Ditto But K167	No.	1		
1.3.34	Ditto But K160/3	No.	30		
1.3.35	Ditto But K160/1	No.	3		
1.3.36	Ditto But K166/1	No.	2		
1.3.37	Ditto But K18 for Earth Line	No.	9		
1.3.38	Install Hot Galvanized Protection Arm K81 , the Item Include Steel Bolts , Nuts & Washers with all needed for Fixing & Installation .	No.	519		
1.3.39	Ditto But K82	No.	41		
1.3.40	Install Hot Galvanized Anti-Climbing Steel Arm K113/8 , for L.S.P	No.	47		
1.3.41	Install Hot Galvanized Anti-Climbing Steel Arm K78/2 , for C.S.P	No.	31		
1.3.42	Install Hot Galvanized L.V Steel Pole Arm K202 , the Item Include Steel Bolts , Nuts & Washers with all needed for Fixing & Installation .	No.	2		
1.3.43	Ditto But 65 cm long	No.	4		
4	Installation of M.V Insulators				
1.4.1	Install M.V Insulator , Creepage Distance 1050 mm and 170 mm Pin with 2 Nuts 100 mm thread and all needed for Fixing & Installation .	No.	215		
1.4.2	Install M.V Insulator , Creepage Distance 800 mm and 170 mm Pin with 2 Nuts 100 mm thread and all needed for Fixing & Installation .	No.	178		
1.4.3	Install Tension Unit , the Item Include 3 Tension Glass Disk (Creepage Distance 320 mm) , Fork Ball Hook 16mm ² , Steel Twisted Clamp and Dead End Clamps for Wire 150/25 mm ² ACSR(traizy) with all needed for Fixing & Connection .	Unit	153		
1.4.4	Install Tension Unit , the Item Include 3 Tension Glass Disk (Creepage Distance 320 mm) , Half Moon , Steel Twisted Clamp and Dead End Clamps for Wire 50/8 mm ² ACSR with all needed for Fixing & Connection .	Unit	33		
1.4.5	Install Tension Unit , the Item Include 3 Tension Glass Disk (Creepage Distance 320 mm) , Half Moon with all needed for Fixing & Connection .	Unit	9		
1.4.6	Install Low Tension Shackle Insulator Unit Complete for Earth line with all needed for Fixing & Connection .	Unit	128		

Item	Description	Unit	Qty.	Unit Rate	Amount
5	Installation of M.V Wires				
1.5.1	Install and Connect Wire ACSR 6x(1x150/25)+1x(50/8) mm ² , the Item Include Non Tension Clamps , Distribution Ties , Compression Lugs , Joints & Steel Bolts and all needed for Fixing & Connection .	Km	2.41		
1.5.2	Install and Connect Wire ACSR 3x(1x150/25)+1x(50/8) mm ² , the Item Include Non Tension Clamps , Distribution Ties , Compression Lugs , Joints & Steel Bolts and all needed for Fixing & Connection .	Km	6.53		
1.5.3	Install and Connect Wire ACSR 4x(1x50/8) mm ² , the Item Include Non Tension Clamps , Distribution Ties , Compression Lugs , Joints & Steel Bolts and all needed for Fixing & Connection .	Km	1.52		
6	Installation of M.V Cables & Accessories				
1.6.1	Fitting & Protection the cables on the steel poles the item includes installation of 2 cable Guard to protect the cables, 3Steel Plates f and 6 Cable Holder to fix the cables	Km	8		
1.6.2	Install and Connect 36 kv Heat Shrinkable Outdoor Termination Kit For 1x400/35 mm ² AL XLPE Cable (Set for one Phase) . With Suitable Compression Lugs with all needed for Fixing .	No.	12		
1.6.3	Install and Connect 36 kv Heat Shrinkable Outdoor Termination Kit For 1x120/16 mm ² AL XLPE Cable (Set for one Phase) . With Suitable Compression Lugs with all needed for Fixing .	No.	18		
1.6.4	Install Heat Shrinkable Straight Joint For 36KV 1x400/35 mm ² AL XLPE Cable , (Set for one Phase) including Al Joint 400 mm ² and Cu Joint 35 mm ² .	No.	14		
1.6.5	Install Heat Shrinkable Straight Joint For 24KV 1x120/16 mm ² AL XLPE Cable , (Set for one Phase) including Al Joint 120 mm ² and Cu Joint 16 mm ² .	No.	7		
1.6.6	Install and Connect Outdoor Metal Oxide Surge Arrestor M.C.O.V(Maximum continuous operating voltage) 19.5 KV , Nominal discharge current 10kA and Minimum creepage distance 31mm/kV with Ground Lead Disconnecter included Brackets and Cable (Set for One Phase) .	No.	30		
7	Installation of Transformer				
1.7.1	Install and Connect 22/0.4 kV , 630 kVA Low Losses Outdoor Pole Mounted Distribution Transformer , the Item Include Installation of Hot Galvanized Transformer Arm K183 , Transformer Clamps K188 , Fuse Holder Model K1750/1 , 22kV Glass Fuses 35 Amps , Solid Copper Wire 25mm ² and all needed for Fixing & Installation .	No.	3		
1.7.2	Install and Connect 22/0.4 kV , 630 kVA Low Losses Outdoor Pole Mounted Distribution Transformer , the Item Include Installation of Hot Galvanized Transformer Arm K183 , Transformer Clamps K188 , Fuse Holder Model K1750 , 22kV Glass Fuses 35 Amps , Solid Copper Wire 25mm ² and all needed for Fixing & Installation .	No.	2		
1.7.3	Install and Connect 22/0.4 kV , 400 kVA Low Losses Outdoor Pole Mounted Distribution Transformer , the Item Include Installation of Hot Galvanized Transformer Arm K183 , Transformer Clamps K188 , Fuse Holder Model K1750/1 Including 24 kV Surge Arrestor Set (Set for 3 phases) , 22kV Glass Fuses 25 Amps , Solid Copper Wire 25mm ² and all needed for Fixing & Installation .	No.	3		
1.7.4	Install and Connect 22/0.4 kV , 400 kVA Low Losses Outdoor Pole Mounted Distribution Transformer , the Item Include Installation of Hot Galvanized Transformer Arm K183 , Transformer Clamps K188 , Fuse Holder Model K1750 , 22kV Glass Fuses 25 Amps , Solid Copper Wire 25mm ² and all needed for Fixing & Installation .	No.	1		

Item	Description	Unit	Qty.	Unit Rate	Amount
8	Installation of L.V & M.V Disconnectores				
1.8.1	Install and Connect 36 kV, 800A Switch Disconnecter (Isolating Switch) with built-in arc interrupter , the Item Include 3 Complete Basic Poles With 9 Composite Polymer Insulators , Load Break Device(36kv,630A) , Manual Operating Device , Operating Rod , 6 Operating Rod Supports , 2 Joints , Triangular Plate for Operating on Crossarm including Fixing Arrangement for Horizontal Rod , 2 Mounting Beams L=1990 mm , Nuts/bolts for Fastening of Disconnecter to Beam , Operating Shaft For Isolator L=1990 mm and Operating Lever with Rod Head , Master key lock , Compression Lugs with all needed Accessories for Fixing & Installation .	Set	17		
1.8.2	Install and Connect Low Voltage Manual Load Break 3-Poles Disconnect or Combined the Item Include Compression Lugs , Steel Bolts , Nuts & Washers and all needed for fixing and installation	Set	23		
9	Installation of Earthing Unit				
1.9.1	Install Earthing Unit , the Item Include Wire PN CU 70 mm ² PVC Yellow/Green , Earth Rods 15mm Diameter 1.5 m Long , Earth Rod Joints 15 mm Diameter , Earth Rod Connection Clamps & Compression Lugs , Steel Bolts with all needed Accessories for Fixing & Connection . (The Earth Resistance should be less than 5 ohm)	Unit	58		
10	Concrete Foundations				
2	Supply and cast concrete Foundation B200 for the Electrical installations as per the drawings.	M3	581.5		
Total of Bill No. 1					

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Item	Description	Unit	Qty.	Unit Rate	Amount
Bill No. 2 : Civil Works					
	<p>All installation works must be according to technical specifications, drawings, and engineer's instruction. Price shall include the following :</p> <p>1- All equipments, machines, ... etc. needed for proper execution and completion of work activities.</p> <p>2- Excavation, and casting concrete B200 around the pipes along with relevant tests of concrete compressive strength cubes.</p> <p>3- Preparation of proper access to the work site as may deem necessary.</p> <p>4- Repairing of all damages may occur to the existing facilities during the implementation.</p> <p>5- Dismantle and removal of any damaged poles , wires, surplus materials, etc. then transport to locations nominated by engineer.</p> <p>6- All necessary tests according to the technical specification and the engineer's instructions.</p> <p>7- Transfer all surplus materials to the agreed dump sites according to supervisor instruction.</p> <p>8- All necessary shop drawings and as built drawings to the engineer's approval.</p>				
1	<p>Excavation of the cable trenches in any soil with dim. (50 cm width & 110 cm depth) as per drawing & supervisor instruction. The work includes (cutting old Asphalt mechanically, cutting old concrete mechanically, removable any tiles or other obstacles might be found in the excavation area, protection of the excavation sides).</p> <p>- The contractor should repair any damage of the infrastructures.</p> <p>- All The above work as per drawing & supervisor instruction.</p>	L.M	2180		
2	<p>Supply & lay (No. 2) UPVC pipe (SN8 6") at cross road trenches.</p> <p>The work include supplying and casting B200 around the pipe as per drawings and supervisor instruction & the concrete width dim. 50cm on width & 50cm on depth, and laying cables and cordage inside the pipes.</p>	L.M	80		
3	<p>Supply & lay (No. 2) UPVC pipe (SN8 8") at cross road trenches.</p> <p>The work include supplying and casting B200 around the pipe as per drawings and supervisor instruction the concrete width dim 50cm on width & 50cm on depth , and laying cables and cordage inside the pipes.</p>	L.M	100		
4	<p>Supply & backfill by clean sand around the cables, first layers with dim, 50cm width & 50cm depth.</p> <p>The work includes watering & compaction to 100% of MDD each layer with 25cm depth as per drawings & supervisor instructions.</p>	L.M	2000		
5	<p>supply & fixed 45x45x4cm concrete slabs, along the trenches including the warning tape as per drawings & supervisor instruction.</p>	L.M	2000		
6	<p>Laying the cables "no.3" along the trenches and hold it above the electrical poles as per drawings & supervisor instruction.</p> <p>The price also includes supplying the cables from GEDCO warehouse .</p>	L.M	2180		
7	<p>Supply & back fill by using improved material clean sand (Safia) as second layer, the depth as per the drawings.</p> <p>The work includes watering and compacting to 100% of MDD each layer with 25cm depth as per drawings and supervisor instruction.</p>	L.M	2180		

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Item	Description	Unit	Qty.	Unit Rate	Amount
8	Re-fixing the interlock tile including supply and compact all the layers under tiles (clean sand& base-course), and filling the joints with clean sand & compacting as per drawings and supervisor instruction .	L.M	786		
9	Supply, spread, and compact Asphalt according to the existing asphalt layer , the work includes cutting old Asphalt mechanically, supplying , spreading, watering, and compacting two layers 15cm depth each layer from base-course to 100% of MDD & spread MCO & RC2, with all necessary testing as it was before to match the existing as per drawings & supervisor instruction.	L.M	778		
10	Re-fixing the concrete tiles 25x25cm the work includes exchange the damage tiles,and cement mortar 3 cm under tile as per drawings & supervisor instruction.	L.M	460		
11	Supply & cast B200 concrete in the pavement with 50cm width & depth according to the existing but not less than 20 cm. The work include supplying ,watering and and compacting a basecourse layer uder concrete as per drawings & supervisor instruction.	L.M	75		
Total of Bill No. 2					

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Summary

Item	Description	Amount (US\$)
1	Bill No. 1	
2	Bill No. 2	
	VAT (0.0%)	0.0
	Total	

Total in numbers

Total in letters

Name of the contractor

Authorized signature

Signature and Sealing.....

Title

Telephone.....

Fax

Mobile