Tender No.

(SELCo. 01/2025)

Electrical Materials

(MV, LV Cables and Conductors)

Grand Total	
Discount	
Total after Discount excluding VAT (NIS)	

Total in words: .....

Company.....

Signature.....

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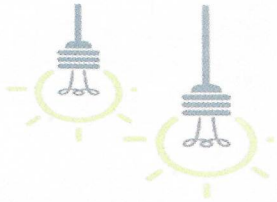
Dura Branch :02-2288355
Dahriah Branch :02-2265601



The following data shall be filled and submitted with the Tender:

Tender Number: .....

Tender Name: .....

Supplier Name: .....

Contact Person: .....

Address: .....

Telephone Number: .....

Fax number: .....

Mobile Number: .....

Email: .....

Bid Submission date and time: .....

Company.....

Signature.....

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Instructions to Bidders

- *The Bidder shall submit one original financial offer in a separate envelope from one original and a copy of the technical offer.*
- *The bidder could participate in one or more lots of the tender, the supplier should price all items of the participated lots, else will be excluded.*
- *The bid validity should be not less than 90 days from the bid opening date.*
- *The bidder must submit a bank guarantee from local bank equivalent to 5% of the tender total value and in separate envelope, valid for 90 days from the date of submission; otherwise, quotation will be rejected.*
- *Each lot is indivisible.*
- *Prices are in NIS Excluding VAT.*
- *Payments: Within 30 days from delivery and technical approval.*
- ***Delivery: within (90) days** from the date of accepting and informing the supplier of acceptance of quotation.*
- *The awarded supplier / suppliers and within 10 days from receiving the awarding letter shall submit a performance bond equivalent to 10% of the awarded value, valid for 180 days.*
- *The awarded supplier of LOT 1 shall bear all the expenses of two engineers from SELCo to visit and inspect the goods at the manufacturer premises including travelling and accommodation and all related costs.*
- *The awarded supplier of LOT 2 shall bear all the expenses of two engineers from SELCo to visit and inspect the goods at the manufacturer premises including travelling and accommodation and all related costs.*
- *Prices including all charges up to the warehouses including the unloading cost.*
- *Bid document nonrefundable price is 1500 NIS and will be paid when submitting the offer by the participants.*
- *In case of mistakes in summation, the unit price will be considered.*
- *The bidder shall submit manufacturer catalogs with the tender indicating the catalog number and technical specification for each offered item.*
- *Payments: Within 30 days from delivery and technical approval for Lots (1&2).*
- *Discount at source certificate is required from local suppliers.*
- *Fines: 1% of the item price per week of delay and not more than 10% of total bid value.*
- *The awarded supplier could obtain an advanced payment up to 20% of the awarded amount, an advanced payment bond shall be submitted with the request of the advanced payment.*
- *Tender document could be obtained from SELCo website or from procurement department.*
- *Wednesday November,26th 2025 12:00 pm is the final time of receiving the offers at SELCo headquarter/Procurement department. and in sealed envelopes.*
- *For further information, please do not hesitate to contact the procurement department:*

Eng. Abdelqadir Qaisieh
Purchasing Manager
Tel: 02 2283602/3
Fax: 02 2283601
Email: abed@selco.ps
Website www.selco.ps.

SELCO SOUTHERN ELECTRIC CO. شركة كهرباء الجنوب

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Schedule of requested Materials

LOT 1: Medium Voltage Cables and Conductors:

No.	Item	Unit	Qty	Unit Price	Total
1	ACSR "Coyote" conductor (BS215 PART 2)	KM	10		
2	54kV, under-ground cable, single core 1x150mm2 Al (XLPE/MDPE)	KM	50		
3	54kV, under-ground cable, single core 1x400mm2 Al (XLPE/MDPE)	KM	7		
Total Excluding VAT (NIS)					

LOT 2: Low Voltage Aerial Bundle Cables (ABC Cables):

No.	Item	Unit	Qty	Unit Price	Total
1	600/1000V, ABC 4x50+2x25 mm2 Al	KM	150		
2	600/1000V, ABC 4x95+2x25 mm2 Al	KM	100		
Total Excluding VAT (NIS)					

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Tender No. (SELCo 01/2025)

Technical Specifications

LOT 1: Medium Voltage Cables and Conductors:

1. ACSR "Coyote" conductor

Standards

Aluminum clad steel reinforced aluminum conductor (ACSR/AW) aluminum alloy conductor (AA) and copper conductors shall comply with IEC standards or such other equivalent recognized national standard which the Bidder shall define.

Manufacture of ACSR and Aluminum Conductor

The manufacture of the ACSR/AW and AA conductor shall be carried out in a portion of the works specially set aside for such purposes. Precautions shall be taken during the manufacture and storage of ACSR conductor to prevent the possibility of contamination by copper or other materials that may adversely affect the aluminum. In the event of any machinery used for conductor manufacture being used for materials other than aluminum or steel strand the Supplier shall furnish the Purchaser with a certificate that the machinery has been thoroughly cleaned before use on aluminum or steel wire and the conductor supplied under this Contract is free from contamination.

The aluminum shall be of the highest purity commercially obtainable and the Supplier shall submit certificates of analyses giving the percentage and nature of any impurities in the metal of which the aluminum wires are made.

There shall be no joints in steel wires forming the core of composite conductors, excepting those made in the base rod or wire before drawing, unless the core consists of seven or more wires. In the latter case joints in individual wires are permitted, additionally to those made in the base rod or wire before drawing, but no two joints shall be less than 15 m apart in the complete steel core.

The steel strands shall be performed so that they remain inert and do not move relative to each other when the conductor is cut.

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The steel core wires shall be uniformly covered with approved grease. In addition, the inner aluminum wires shall be similarly treated. The grease shall fill all internal spaces except that excess grease shall be removed from the conductor before the application of the final layer of wires.

The outermost layer of all conductors shall be stranded with the right-hand lay.

Mechanical Properties

Steel Core

The steel core shall be comprised of stranded aluminum covered steel wire in accordance with ASTM B-416, Concentric-Lay-Stranded Aluminum-Clad Steel Conductors. The covering on each individual wire shall achieve a continuous dependable weld with the steel core and shall provide a uniform guaranteed minimum thickness of aluminum of 10 percent of the wire radius. The zone of diffusion shall be clearly defined.

Grease

The grease to be used in the conductor shall be chemically inert, shall not flow within nor exude from the conductor when at a temperature of 90°C nor shall its characteristics be impaired after heating to 20°C above its drop point for 150 hours. The grease shall be suitable for service temperatures in the range -10°C to +75°C. The suitability of the grease shall have been proven by tests acceptable to the Purchaser.

Conductor Characteristics

The conductors shall have the mechanical and physical properties approximating to the details given in this technical specification. The actual characteristics are to be set out in the Technical Schedules.

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No	Particulars	Unit	"Coyote" Required Specifications
1.	Reference Manufacturing Standards		British Sizes: BS 215 Part 2
2.	Max. Service Voltage (Um)	kV	36
3.	Conductor Material		Aluminium Conductor Steel Reinforced - (ACSR)
4.	Steel Core Construction		Stranded Galvanized Steel Wires
5.	Conductor Construction		Stranded Hard-drawn Aluminium Wires
6.	Cross section (Total)	mm2	151.8
7.	Cross section (AL)	mm2	131.7
8.	Cross section (Steel)	mm2	20.1
9.	Overall diameter of cond.	mm	15.9
10.	Overall diameter of core	mm	5.73
11.	AL stranded wire Diameter	mm	26X2.54
12.	Steel stranded wire Diameter	mm	7X1.91
13.	Theoretical linear weight without grease	Kg/Km	520.7
14.	Max. Conductor DC Resistance at 20 °C	Ω/km	0.2192
15.	Breaking Strength	KN	45.86
16.	Drum Material	M	Wood
17.	Wire Length on Drum	M	2000

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2. **54kV, under-ground cable, single core 1x150mm2 Al (XLPE/MDPE)**

The conductor shall be covered with:

- Conductors as to be with swelling powder to prevent axial ingress of water along the conductor
- An extruded semi-conducting layer
- A layer of dry vulcanized cross-linked polyethylene (XLPE) insulation
- An extruded vulcanized semi-conducting layer
- A layer of swelling tape to prevent axial ingress of water along the screen
- A layer of earthing screen of stranded copper, connection between copper and aluminum
- A layer of longitudinal aluminum to prevent water break-through
- A black outer MDPE (Medium density polyethylene) sheath that is laminated to the longitudinal aluminum, for water tightness and mechanical protection.

Rated Voltage (Uo/U) Um	KV	45/26 (Um=54)
Nominal Cross-section	mm^2	1*150/25
Number of conductors	Nr	1
Material of conductor		Aluminum
Shape of conductor		Round stranded compacted class 2 to IEC 60226
Prevention of axial ingress of water along the conductor		By means of swelling powder
Type of conductor screen		Extruded firmly bonded semi-conducting layer
Type of insulation		Cross-linked polyethylene (XLPE)
Min. average thickness	mm	Not less than 10
Type of insulation screen		Extruded firmly bonded semi-conducting layer
Prevention of axial ingress of water along the screen		By means of semi-conducting / swelling tape
Type of metallic screen		Copper wires applied helically
Cross sectional area of metallic screen.	mm2	25
Prevention of water breaking through		By means of swelling powder between copper wires of metallic screen and aluminum copolymer coated tape over the metallic screen
Type pf outer sheath		Black MDPE (UV-resistant)
Nominal thickness	mm	Not less than 2.5
Approx. outer diameter	mm	43
Approx. cable weight	Kg/Km	1850
Packing length in wooden drum	mt	1000
Min. bending radius during laying	mm	580
Max. DC resistance at 20°C	Ohm/km	0.206
Max. DC resistance at 90°C	Ohm/km	0.263
Reactance, 50 Hz (trefoil/flat)	Ohm/km	0.12
Cables specification		IEC 60502-2 % customer

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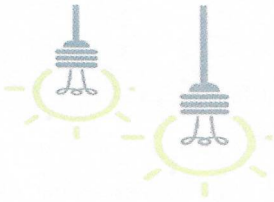

3. **54kV, under-ground cable, single core 1x400mm2 Al (XLPE/MDPE)**

The conductor shall be covered with:

- Conductors as to be with swelling powder to prevent axial ingress of water along the conductor
- An extruded semi-conducting layer
- A layer of dry vulcanized cross-linked polyethylene (XLPE) insulation
- An extruded vulcanized semi-conducting layer
- A layer of swelling tape to prevent axial ingress of water along the screen
- A layer of earthing screen of stranded copper, connection between copper and aluminum
- A layer of longitudinal aluminum to prevent water break-through
- A black outer MDPE (Medium density polyethylene) sheath that is laminated to the longitudinal aluminum, for water tightness and mechanical protection.

Rated Voltage (Uo/U) Um	KV	45/26 (Um=54)
Nominal Cross-section	mm^2	1*400/35
Number of conductors	Nr	1
Material of conductor		Aluminum
Shape of conductor		Round stranded compacted class 2 to IEC 60226
Prevention of axial ingress of water along the conductor		By means of swelling powder.
Type of conductor screen		Extruded firmly bonded semi-conducting layer
Type of insulation		Cross-linked polyethylene (XLPE)
Min. average thickness	mm	Not less than 10
Type of insulation screen		Extruded firmly bonded semi-conducting layer
Prevention of axial ingress of water along the screen		By means of semi-conducting / swelling tape
Type of metallic screen		Copper wires applied helically
Cross sectional area of metallic screen.	mm2	35
Prevention of water breaking through		By means of swelling powder between copper wires of metallic screen and aluminum copolymer coated tape over the metallic screen
Type pf outer sheath		Black MDPE (UV-resistant)
Nominal thickness	mm	Not less than 2.5
Approx. outer diameter	mm	60
Approx. cable weight	Kg/Km	3100
Packing length in wooden drum	mt	1000
Min. bending radius during laying	mm	1180
Max. DC resistance at 20°C	Ohm/km	0.078
Max. DC resistance at 90°C	Ohm/km	0.102
Reactance, 50 Hz (trefoil/flat)	Ohm/km	0.18
Cables specification		IEC 60502-2 % customer

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LOT 2: Low Voltage Aerial Bundle Cables (ABC Cables):

General

The Aerial Bundle Cable shall be 600/1000 V grade cross-link polyethylene and shall be of the types and construction stated in the Schedules. All cables shall be manufactured and tested to the CENELEC HD 626. Cables shall be designed for a maximum continuous conductor temperature of 90 C°, and for operation on a system with the neutral solidly earthed.

The cable shall be of self-supporting type where all conductors share the load; i.e. no messenger wire or reinforced neutral conductor shall be used alone for suspension of the cable.

Conductors

The conductors shall be hard drawn stranded aluminum and shall comply with all the requirements of IEC 60228.

Insulation

The materials used in the manufacture shall be black weather-resistant cross-linked polyethylene with a high resistance to ultra violet radiation (UV). The insulation shall fit closely on but shall not adhere to the conductors.

Cable Identification

An approved method of identifying the manufacturer and year of manufacture shall be provided throughout the length of all cables. The cable shall be numbered longitudinally.

Core Identification

Identification of individual cores of the cable shall be by longitudinal ridges on the insulation and shall be provided throughout the length of all cables.

Testing

All cables, accessories and materials shall be subjected to and satisfactorily withstand the test requirements specified herein. All materials shall withstand such routine tests as are customary in the manufacture of the cables and accessories included in the Contract.

Sealing and Drumming

The cable shall be wound on to a strong non-returnable drum with enclosed flanges and barrel arranged to take a round spindle of a section adequate to support the loaded cable drum during installation and handling. The drum shall be lagged with strong closely fitting battens, which shall be securely fixed to prevent damage to the cable. Wooden drums shall be constructed of seasoned timber to prevent shrinkage of drums during shipment and subsequent storage on site. Each drum shall be clearly marked in a manner that cannot be obliterated with the particulars of the cable, including voltage, length, conductor size, number of cores gross and net weights, together with direction for rolling.

The ends of the cables shall be sealed by enclosing them in approved caps, tight fitting and adequately secured to prevent the ingress of moisture.

The end of the cable left projecting from the drum shall at all times be securely protected against damage.

Each Drum shall contain 0.5 km quantity

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