**Note:**  There are two separate quantities of the same cable item intended for use at two different locations. For logistical efficiency, we prefer to receive the cables in two distinct shipments, rather than having to unreel and separate them upon arrival.

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| **ANNEX 2 – BID SUBMISSION FORM & BILL OF QUANTITY** |
| **Ifalik & Lamotrek Solar PV Microgrid Project** | **Quantity** | **Price** |
| **ACCESSORIES** | **Specifications** |  | **Unit Cost** | **Total Cost** |
| Cables from PV string to combiner box - Ifalik Power | **10mm2 Cu Photovoltaic (PV) Cable Single Core** Copper Conductors flexible,1500Volt DC XLPE or XLPO insulateddirect burial use with termite barrierIEC 62930designed to operate at a normal continuous maximum conductor temperature of 90 °C. permissible period of use at a maximum conductor temperature of 120 °C is limited to 20 000 h.  | 400 | meter |  |  |
| Cables from PV string to combiner box - Lamotrek Power | **10mm2 Cu Photovoltaic (PV) Cable Single Core** Copper Conductors flexible,1500Volt DC XLPE or XLPO insulateddirect burial use with termite barrierIEC 62930designed to operate at a normal continuous maximum conductor temperature of 90 °C. permissible period of use at a maximum conductor temperature of 120 °C is limited to 20 000 h. | 300 | meter |  |  |
| Combiner box | **BHS-2-1** DC Breaker 4PDC SPDInput 2 stringsOutput 1 stringMax Voltage 600VRated Current of DC Breaker 25AMax Current Output 63AIP65 | 20 | box fully equipped |  |  |
| Cables from combiner box to Charge controller - Ifalik Power | **16mm2 Cu Photovoltaic (PV) Cable Single Core** Copper Conductors flexible,1500Volt DC XLPE or XLPO insulateddirect burial use with termite barrierIEC 62930designed to operate at a normal continuous maximum conductor temperature of 90 °C. permissible period of use at a maximum conductor temperature of 120 °C is limited to 20 000 h. | 600 | meter |  |  |
| Cables from combiner box to Charge controller - Lamotrek Power | **16mm2 Cu Photovoltaic (PV) Cable Single Core** Copper Conductors flexible,1500Volt DC XLPE or XLPO insulateddirect burial use with termite barrierIEC 62930designed to operate at a normal continuous maximum conductor temperature of 90 °C. permissible period of use at a maximum conductor temperature of 120 °C is limited to 20 000 h. | 400 | meter |  |  |
| Fuses and fuseholders and box after charge controller | **FUSE-SWITCH-DISCONNECTORSSIZE 125 A - compact 2P or 3P**switch functionality with high protectionlevel of fuses - suitable for IEC low voltage systemsNH power fuses included - panel mounting | 20 | set |  |  |
| Cables from Charge controller to Batteries - Ifalik Power | **35mm2 Cu Single Core Cable 110°C Flexible**Copper conductor, 0.6/1kV X-HF-110 insulated, HFS-110-TP sheathedLow smoke zero halogen insulation and sheath, 110°C continuousIEC 60332-3 Cat.ALow Fire Hazard rangePVC-freeMade with flame retardant compoundReduces toxic smoke emissions in the event of fire.Meets physical property requirements of 125°C XLPO insulation to UL 1581Conductor flexibility Class 5Rated Voltage 0,6/1 kVMaximum operating temperature 110 °CU.V resistanceType of conductor Stranded flexible | 300 | meter |  |  |
| Cables from Charge controller to Batteries - Lamotrek | **35mm2 Cu Single Core Cable 110°C Flexible**Copper conductor, 0.6/1kV X-HF-110 insulated, HFS-110-TP sheathedLow smoke zero halogen insulation and sheath, 110°C continuousIEC 60332-3 Cat.ALow Fire Hazard rangePVC-freeMade with flame retardant compoundReduces toxic smoke emissions in the event of fire.Meets physical property requirements of 125°C XLPO insulation to UL 1581Conductor flexibility Class 5Rated Voltage 0,6/1 kVMaximum operating temperature 110 °CU.V resistanceType of conductor Stranded flexible | 200 | meter |  |  |
| Fuses and fuseholders and box between batteries and battery inverter | **FUSE-SWITCH-DISCONNECTORSSIZE 250 A - compact 2P or 3P**switch functionality with high protectionlevel of fuses - suitable for IEC low voltage systemsNH power fuses included - panel mounting | 15 | set |  |  |
| Cables from Batteries to Battery inverter - Ifalik Power | **95mm2 Cu Single Core Cable 110°C Flexible**Copper conductor, 0.6/1kV X-HF-110 insulated, HFS-110-TP sheathedLow smoke zero halogen insulation and sheath, 110°C continuousIEC 60332-3 Cat.ALow Fire Hazard rangePVC-freeMade with flame retardant compoundReduces toxic smoke emissions in the event of fire.Meets physical property requirements of 125°C XLPO insulation to UL 1581Conductor flexibility Class 5Rated Voltage 0,6/1 kVMaximum operating temperature 110 °CU.V resistanceType of conductor Stranded flexible | 400 | meter |  |  |
| Cables from Batteries to Battery inverter - Lamotrek Power | **95mm2 Cu Single Core Cable 110°C Flexible**Copper conductor, 0.6/1kV X-HF-110 insulated, HFS-110-TP sheathedLow smoke zero halogen insulation and sheath, 110°C continuousIEC 60332-3 Cat.ALow Fire Hazard rangePVC-freeMade with flame retardant compoundReduces toxic smoke emissions in the event of fire.Meets physical property requirements of 125°C XLPO insulation to UL 1581Conductor flexibility Class 5Rated Voltage 0,6/1 kVMaximum operating temperature 110 °CU.V resistanceType of conductor Stranded flexible | 300 | meter |  |  |
| Ground Cables - Ifalik Power | 10mm2 Cu  | 300 | meter |  |  |
| Ground Cables - Lamotrek Power | 10mm2 Cu  | 200 | meter |  |  |
| Ground Cables - Ifalik Power | 35mm2 Cu | 300 | meter |  |  |
| Ground Cables - Lamotrek Power | 35mm2 Cu | 200 | meter |  |  |
| Terminations- Combiner | Ferrules for 10mm2 Wire | 70 | each |  |  |
| Combiner to Charger | Ferrules for 16mm2 Wire | 100 | each |  |  |
| Tools | Crimping Tool for above Ferrules | 4 | each |  |  |
| Tools | Crimping Tool for Ring Lugs (35mm2 wire and 95mm2 wire) | 2 | each |  |  |
| Tools | Crimping tool for MC4 connector | 2 | each |  |  |
| Terminations- Charger to Battery | Stud Battery Ring Lugs, Copper 35mm2 wire with 5/16 (8mm) hole size | 100 | each |  |  |
| Terminations- Battery to Inverter | Stud Battery Ring Lugs, Copper 95mm2 wire with 5/16 (8mm) hole size | 650 | each |  |  |
| PV Panels | MC4 Connector Kit, male, female connector & pins | 200 | each |  |  |
| Cable management | Flexible Non-Metal Electrical Conduits 1 inch | 400 | feet |  |  |
| Mounting cables to wall | Panduit Cable J Hook, Wall Mount, 1.31 In, PK10 | 100 | each |  |  |
| Cable management | Black Cable Tie, 8 in L, Plenum Rated, UV Stabilized, 40 lb Strength | 2000 | each |  |  |
| DC Cable management | Heat Shrink Tubing for 10mm2 Wire - Color Red | 3 | meters |  |  |
| DC Cable management | Heat Shrink Tubing for 16mm2 Wire - Color Red | 3 | meters |  |  |
| DC Cable management | Heat Shrink Tubing for 35mm2 Wire - Color Red | 3 | meters |  |  |
| DC Cable management | Heat Shrink Tubing for 95mm2 Wire - Color Red | 3 | meters |  |  |
| DC Cable management | Heat Shrink Tubing for 2AWG Wire - Color White | 5 | meters |  |  |
| DC Cable management | Heat Shrink Tubing for 2AWG Wire - Color Red | 5 | meters |  |  |
| DC Cable management | Heat Shrink Tubing for 2AWG Wire - Color Blue | 5 | meters |  |  |
| DC Cable management | Heat Shrink Tubing for 4AWG Wire - Color White | 5 | meters |  |  |
| DC Cable management | Heat Shrink Tubing for 4AWG Wire - Color Red | 5 | meters |  |  |
| DC Cable management | Heat Shrink Tubing for 4AWG Wire - Color Blue | 5 | meters |  |  |
| DC Cable management | Heat Shrink Tubing for 4/0 Wire - Color White | 5 | meters |  |  |
| DC Cable management | Heat Shrink Tubing for 4/0 Wire - Color Red | 5 | meters |  |  |
| DC Cable management | Heat Shrink Tubing for 4/0 Wire - Color Blue | 5 | meters |  |  |
|  | **Subtotal** |  |
| **Freight Cost** |  |
| **Grand Total** |  |