|  |  |
| --- | --- |
| **Instructions to Bidder:** Bidders are to offer **a standard production model** most closely matching the specification below and provide details of the offer. **\* Bidders must enter "Comply" or "Not comply" against each paragraph of this specification, comment as necessary, and sign and stamp each page.** Failure to complete this statement of compliance may result in the offer being rejected.In the event of electronic bidding by E-mail or by means of scanning of the Specification for completion by word processing, the specification shall not be altered in any way. Any deviation to specification should be stated and if necessary, fully explained as a comment in the compliance column without making any changes to the specification.**Any changes to the specification may invalidate the Bid**. | **UNITS ARE TO BE STATED USING THE SI SYSTEM.** *For example length in metres (m). Multiples and sub-multiples to be used are: 106 mega (M); 103 kilo (k); 10-3 milli (m) and 10-6 micro (μ).* |
|  | **SOLAR UPGRADE & RETROFIT MATERIALS**Application: To provide sustainable energy from solar radiation.To export specification and fully suitable for service in Nigeria. |  |
|  | **12 way 100 Amps Distribution Board** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard: IEC 61439-3 |  |
|  | Three Phase & Neutral (TP + N) rated 100A MCB, 12-Way DB, Pan assembly, DIN railcomplete with copper busbars, neutral and earth terminals. |  |
|  | Incomer rating: RYB 100A, 415/240 V ac, 50 Hz |  |
|  | Outgoing MCB Range: 7x5A, 5x15A DIN rail |  |
|  | Residual Current Circuit Breaker (RCCB): 3PH, 4pole,100A |  |
|  | Degree of protection: (IEC 60529) IP 41 |  |
|  | Rated Insulation Voltage: 690V |  |
|  | Fault level: Rated short time withstand current for busbars (6KA for 1sec) |  |
|  | Enclosure material: Electro galvanized, Zinc coated steel sheet or Cold rolled sheet steel box and cover ≥1mm |  |
|  | Enclosure finishing: Powder coating paint in light gray, with hinged door and tamper proof locking facility |  |
|  | Mounting: Flush mount with pre-punched knockout holes at top and bottom |  |
|  | **8 way 63 Amps Distribution Board** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard: IEC 61439-3 |  |
|  | Three Phase & Neutral (TP + N) rated 63A MCB, 8-Way DB, Pan assembly, DIN rail complete with copper busbars, neutral and earth terminals |  |
|  | Incomer rating: RYB 63A, 415/240 V ac, 50 Hz |  |
|  | Outgoing MCB Range: 5x5A, 3x15A DIN rail |  |
|  | Residual Current Circuit Breaker (RCCB): 3PH, 4pole, 63A |  |
|  | Degree of protection: (IEC 60529) IP 41 |  |
|  | Fault level: Rated short time withstand current for busbars (6KA for 1sec) |  |
|  | Enclosure material: Electro galvanized, Zinc coated steel sheet or Cold rolled sheet steel box and cover ≥1mm |  |
|  | Enclosure finishing: Powder coating paint in light gray, with hinged door and tamper proof locking facility |  |
|  | Mounting: Flush mount with pre-punched knockout holes at top and bottom |  |
|  | **3 way 32 Amps Distribution Board** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard: IEC 61439-3 |  |
|  | SP + N rated 32A MCB, 3-Way DB, Pan assembly, DIN rail complete with copper busbars, neutral and earth terminals |  |
|  | Incomer rating: 32A, 230 V ac, 50 Hz |  |
|  | Outgoing MCB Range: 2x5A, 1x15A DIN rail |  |
|  | Residual Current Circuit Breaker (RCCB): 1PH, 32A |  |
|  | Degree of protection: (IEC 60529) IP 41 |  |
|  | Fault level: Rated short time withstand current for busbars (6KA for 1sec) |  |
|  | Enclosure material: Electro galvanized, Zinc coated steel sheet or Cold rolled sheet steel box and cover ≥1mm |  |
|  | Enclosure finishing: Powder coating paint in light gray, with hinged door and tamper proof locking facility |  |
|  | Mounting: Flush mount with pre-punched knockout holes at top and bottom |  |
|  | **12 Way 100A Consumer Unit** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard: IEC 61439-3 |  |
|  | Single Phase & Neutral (SP + N ) rated 100A MCB, 12-Way, Pan assembly, DIN rail complete with copper busbars, neutral and earth terminals |  |
|  | Incomer rating: 100A, 230 V ac, 50 Hz |  |
|  | Outgoing MCB Range: 7x5A, 5x15A DIN rail |  |
|  | Residual Current Circuit Breaker (RCCB): 1PH, 100A |  |
|  | Degree of protection: (IEC 60529) IP 41 |  |
|  | Fault level: Rated short time withstand current for busbars (6KA for 1sec) |  |
|  | Enclosure material: Electro galvanized, Zinc coated steel sheet or Cold rolled sheet steel box and cover ≥1mm |  |
|  | Enclosure finishing: Powder coating paint in light gray, with hinged door and tamper proof locking facility |  |
|  | Mounting: Flush mount with pre-punched knockout holes at top and bottom |  |
|  | **8 Way 63A Consumer Unit** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard: IEC 61439-3 |  |
|  | Single Phase & Neutral (SP + N ) rated 63A MCB, 8-Way, Pan assembly, DIN rail complete with copper busbars, neutral and earth terminals |  |
|  | Incomer rating: 63A, 230 V ac, 50 Hz |  |
|  | Outgoing MCB Range: 5x5A, 3x15A DIN rail |  |
|  | Residual Current Circuit Breaker (RCCB): 1PH, 63A |  |
|  | Degree of protection: (IEC 60529) IP 41 |  |
|  | Fault level: Rated short time withstand current for busbars (6KA for 1sec) |  |
|  | Enclosure material: Electro galvanized, Zinc coated steel sheet or Cold rolled sheet steel box and cover ≥1mm |  |
|  | Enclosure finishing: Powder coating paint in light gray, with hinged door and tamper proof locking facility |  |
|  | Mounting: Flush mount with pre-punched knockout holes at top and bottom |  |
|  | **3 Way 32A Consumer Unit** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard: IEC 61439-3 |  |
|  | Single Phase & Neutral (SP + N ) rated 32A MCB, 3-Way, Pan assembly, DIN rail complete with copper busbars, neutral and earth terminals |  |
|  | Incomer rating: 32A, 230 V ac, 50 Hz |  |
|  | Outgoing MCB Range: 2x5A, 1x15A DIN rail |  |
|  | Residual Current Circuit Breaker (RCCB): 1PH, 63A |  |
|  | Degree of protection: (IEC 60529) IP 41 |  |
|  | Fault level: Rated short time withstand current for busbars (6KA for 1sec) |  |
|  | Enclosure material: Electro galvanized, Zinc coated steel sheet or Cold rolled sheet steel box and cover ≥1mm |  |
|  | Enclosure finishing: Powder coating paint in light gray, with hinged door and tamper proof locking facility |  |
|  | Mounting: Flush mount with pre-punched knockout holes at top and bottom |  |
|  | **63A & 100A Change Over Switch** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard: IEC 60947-1&3 |  |
|  | Operation: Side Operation handle, three stable positions (I-0-II) with center Off-Position. |  |
|  | Range: (On-load change Over switch) |  |
|  | 63 &100Amps, 230V in double Pole Version |  |
|  | **FEATURES** |  |
|  | Surface mounting, inner mounting holes and mounting brackets provided in enclosures. |  |
|  | Sheet steel enclosure duly phosphatised and powder painted for longer life. |  |
|  | Provision for door interlocking. |  |
|  | Termination suitable for both Copper &Aluminum cables,. |  |
|  | Adequate knockouts provided in the metallic enclosure for cable entry |  |
|  | Size of Cable for entry & exit: 4x16mmsq |  |
|  | Size of Conductor: 25mmsq |  |
|  | Knock-out dimension: 25ᵩ |  |
|  | **32A Change Over Switch** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard: IEC 60947-1&3 |  |
|  | Operation: Side Operation handle, three stable positions (I-0-II) with center Off-Position. |  |
|  | Range: (On-load change Over switch) |  |
|  | 32Amps, 230V in double Pole Version |  |
|  | **FEATURES** |  |
|  | Surface mounting, inner mounting holes and mounting brackets provided in enclosures. |  |
|  | Sheet steel enclosure duly phosphatised and powder painted for longer life. |  |
|  | Provision for door interlocking. |  |
|  | Termination suitable for both Copper &Aluminum cables. |  |
|  | Adequate knockouts provided in the metallic enclosure for cable entry |  |
|  | Konck-out dimension: 25ᵩ |  |
|  | **63A & 100A Change Over Switch** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard: IEC 60947-1&3 |  |
|  | Operation: Side Operation handle, three stable positions (I-0-II) with center Off-Position. |  |
|  | Range: (On-load change Over switch) |  |
|  | 63 &100Amps, 230V in double Pole Version |  |
|  | **FEATURES** |  |
|  | Surface mounting, inner mounting holes and mounting brackets provided in enclosures. |  |
|  | Sheet steel enclosure duly phosphatised and powder painted for longer life. |  |
|  | Provision for door interlocking. |  |
|  | Termination suitable for both Copper &Aluminum cables,. |  |
|  | Adequate knockouts provided in the metallic enclosure for cable entry |  |
|  | Konck-out dimension: 25ᵩ |  |
|  | **Ceiling Fan (Energy Efficient Fan)** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard: IEC 60335 |  |
|  | Operating voltage:220-240V, 50HZ |  |
|  | Power rating: <75W |  |
|  | Sweep diameter: ≥1200mm |  |
|  | Maximum RPM: ≥280 |  |
|  | Peak Speed Performance Output: 400 |  |
|  | **FEATURES** |  |
|  | Number of blades: 3 |  |
|  | Finishing: white |  |
|  | Complete with regulator, downrod, shackle hold, covers, screws and nuts and other associated accessories |  |
|  | **Compact Flourescent Light (CFL)** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard: IEC 60061-1, 60968 & 60969 |  |
|  | Power rating: 18W |  |
|  | Operating Voltage: 220-240V |  |
|  | Rated Lumen: ≥ 1,000 |  |
|  | Energy class: A |  |
|  | **FEATURES** |  |
|  | CFL base type: E27 screw type |  |
|  | Finishing: twisted tube or staright tube compatible with light fitting |  |
|  | **Ceiling Mounted CFL Light Fixture (Luminaire)** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard: IEC 62722 |  |
|  | Lampholder: E27 |  |
|  | Cover size: Round <21mm |  |
|  | Cover type: Plain transparent plastic |  |
|  | Maximum wattage: 60W |  |
|  | Mounting: Indoor |  |
|  | **Degree of protection:**IP 55 |  |
|  | **Wall Mounted CFL Light Fixture (Luminaire)** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard: IEC 62722 |  |
|  | Lampholder: E27 |  |
|  | Cover size: Round <21mm |  |
|  | Cover type: Fortified transparent glass |  |
|  | Maximum wattage: 60W |  |
|  | Mounting: Outdoor |  |
|  | **Degree of protection:** IP55 |  |
|  | **1Gang 1 way, 2Gang 1way & 3Gang 1way Switches** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard: IEC 60669- 1/SS 227/MS IEC 60669-1,BS EN 60669-1 |  |
|  | Rated current: 10A |  |
|  | Operating Voltage: 240V, 50HZ, |  |
|  | Colour: white |  |
|  | **Socket Outlet (Switched Single and double outlet)** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard:IEC 60906 |  |
|  | Rated current: 13A |  |
|  | Operating Voltage: 240V, 50HZ, |  |
|  | Connection: Live, Neutral and Earth |  |
|  | Colour: white |  |
|  | **Single Pattress Box (for switches and single sockets)** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard: IEC 60670, BS 4662 |  |
|  | Sizes: Single |  |
|  | Material: Galvanised metal sheet ≥ 1.5mm |  |
|  | Dimension: 75x75x30mm (HxWxD) |  |
|  | Mounting: Flush |  |
|  | Mounting: Indoor |  |
|  | **Degree of protection:**IP 55 |  |
|  | **Double Pattress Box (for sockets)** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard: IEC 60670, BS 4662 |  |
|  | Size: double |  |
|  | Material: Galvanised metal sheet ≥ 1.5mm |  |
|  | Dimension: 135x75x30mm (HxWxD) |  |
|  | Mounting: Flush |  |
|  | **PVC Pipes, Saddle clip, Male bush, Angle bend and Circular junction boxes** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **Technical Data** |  |
|  | Standard: Suitable for conduit wiring |  |
|  | Sizes: 25mm, thickness ≥ 1.5mm |  |
|  | Material: Flexural strenghtened plastic |  |
|  | Colour: White |  |
|  | Complete with fitting screws and plastic pegs |  |
|  | **4x16mm2 PVC/SWA/PVC Armoured Cable** |  |
|  | **MANUFACTURER:** |  |
|  | **MODEL:** |  |
|  | **COUNTRY OF MANUFACTURE:** |  |
|  | **TECHNICAL DATA** |  |
|  | Standard:IEC60227 IEC60502 IEC60331 |  |
|  | Sizes: 16mm2 |  |
|  | Max Rated Voltage: 1,000V |  |
|  | Current Carrying capacity:Direct laid = 88A, In air=66A |  |
|  | DC Conductor Resistance at 20ᵒC : 1.15Ω/km |  |
|  | AC Conductor Resistance at 70ᵒC : 1.38Ω/km |  |
|  | Phase: RYB |  |
|  | Conductor: Plain annealed copper |  |
|  | Formation: Stranded together and interstices may be filled with non-hydroscopic material or bedding compound |  |
|  | Bedding Compound / Sheath: PVC compound (black) |  |
|  | Armour: Galvanised steel |  |
|  | Conductor Shape: Circular stranded compacted (CC) |  |
|  | Thickness of Insulation (mm): 1.5 |  |
|  | Thickness of Bedding (mm): 0.8 |  |
|  | Diameter of armour wire (mm): 1.25 |  |
|  | Thickness of Sheath (mm): 1.6 |  |
|  | Approximate Overall Diameter(mm): 25 |  |
|  | Approximate Net Weight(kg/km): 1230 |  |
|  | Colour of Cores: Red, Blue, Yellow and Black |  |
|  | **4x10mm2 PVC/SWA/PVC Armoured Cable** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard:IEC60227 IEC60502 IEC60331 |  |
|  | Sizes: 10mm2 |  |
|  | Max Rated Voltage: 1,000V |  |
|  | Current Carrying capacity:Direct laid=60A, In air=51A |  |
|  | DC Conductor Resistance at 20ᵒC : 1.83Ω/km |  |
|  | AC Conductor Resistance at 70ᵒC : 2.19Ω/km |  |
|  | Phase: RYB |  |
|  | Conductor: Plain annealed copper |  |
|  | Formation: Stranded together and interstices may be filled with non-hydroscopic material or bedding compound |  |
|  | Bedding Compound / Sheath: PVC compound (black) |  |
|  | Armour: Galvanised steel |  |
|  | Conductor Shape: Circular stranded compacted (CC) |  |
|  | Thickness of Isulation (mm): 1.0 |  |
|  | Thickness of Bedding (mm): 0.8 |  |
|  | Diameter of armour wire (mm): 1.25 |  |
|  | Thickness of Sheath (mm): 1.6 |  |
|  | Approximate Overall Diameter: 20.4 |  |
|  | Approximate Net Weight(kg/km): 990 |  |
|  | Colour of Cores: Red, Blue, Yellow & Black |  |
|  | **4x6mm2 PVC/SWA/PVC Armoured Cable** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard:NIS/IEC60227 IEC60502 IEC60331 |  |
|  | Sizes:6mm2 |  |
|  | Current Carrying capacity:Direct laid=45A, In air=37A |  |
|  | DC Conductor Resistance at 20ᵒC : 3.08Ω/km |  |
|  | AC Conductor Resistance at 70ᵒC : 3.69Ω/km |  |
|  | Voltage drop/KM : |  |
|  | Phase: Live, Netral and Earth |  |
|  | Conductor: Plain annealed copper |  |
|  | Formation: Stranded together and interstices may be filled with non-hydroscopic material or bedding compound |  |
|  | Bedding Compound / Sheath: PVC compound (black) |  |
|  | Armour: Galvanised steel |  |
|  | Conductor Shape: Circular stranded compacted (CC) |  |
|  | Thickness of Isulation (mm): 0.8 |  |
|  | Thickness of Bedding (mm): 0.8 |  |
|  | Diameter of armour wire (mm): 1.25 |  |
|  | Thickness of Sheath (mm): 1.5 |  |
|  | Approximate Overall Diameter: 17.4 |  |
|  | Approximate Net Weight(kg/km): 730 |  |
|  | Colour of Cores: Red, Blue, Yellow+Green |  |
|  | Bedding Compound / Sheath: PVC compound (black) |  |
|  | Armour: Galvanised steel |  |
|  | Conductor Shape: Circular stranded compacted (CC) |  |
|  | Thickness of Isulation (mm): 1.5 |  |
|  | Thickness of Bedding (mm): 0.8 |  |
|  | Diameter of armour wire (mm): 1.25 |  |
|  | Thickness of Sheath (mm): 1.6 |  |
|  | Approximate Overall Diameter(mm): 25 |  |
|  | Approximate Net Weight(kg/km): 730 |  |
|  | Colour of Cores: Red, Blue, Yellow+Green |  |
|  | **3x4mm2 PVC/SWA/PVC Armoured Cable** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard:NIS/IEC60227 IEC60502 IEC60331 |  |
|  | Sizes: 4mm2 |  |
|  | Max Rated Voltage: 1,000V |  |
|  | Current Carrying capacity:Direct laid=36A, In air=29A |  |
|  | DC Conductor Resistance at 20ᵒC : 4.61Ω/km |  |
|  | AC Conductor Resistance at 70ᵒC : 5.52Ω/km |  |
|  | Phase: RYB |  |
|  | Conductor: Plain annealed copper |  |
|  | Formation: Stranded together and interstices may be filled with non-hydroscopic material or bedding compound |  |
|  | Bedding Compound / Sheath: PVC compound (black) |  |
|  | Armour: Galvanised steel |  |
|  | Conductor Shape: Circular stranded compacted (CC) |  |
|  | Thickness of Isulation (mm): 0.8 |  |
|  | Thickness of Bedding (mm): 0.8 |  |
|  | Diameter of armour wire (mm): 0.9 |  |
|  | Thickness of Sheath (mm): 1.4 |  |
|  | Approximate Overall Diameter: 15.2 |  |
|  | Approximate Net Weight(kg/km): 510 |  |
|  | Colour of Cores: Red, Blue, Yellow& Black |  |
|  | **3x2.5mm2 PVC Cable (In Coil)** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard:NIS/IEC60227 IEC60502 IEC60331 |  |
|  | Max Rated Voltage: 1,000V |  |
|  | Current Carrying capacity: Laid in duct =23A |  |
|  | DC Conductor Resistance at 20ᵒC : 7.41Ω/km |  |
|  | AC Conductor Resistance at 70ᵒC : 8.87Ω/km |  |
|  | Phase: Live, Netral and Earth |  |
|  | Conductor: Plain copper |  |
|  | Thickness of Isulation (mm): 0.7 |  |
|  | Thickness of Sheath (mm): 1.4 |  |
|  | Colour of Cores: Red, Black, Bare Copper |  |
|  | Lenght per coil: 100m |  |
|  | **3x1.5mm2 PVC Cable (In Coil)** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard:NIS/IEC60227 IEC60502 IEC60331 |  |
|  | Max Rated Voltage: 1,000V |  |
|  | Current Carrying capacity: Laid in duct =18A |  |
|  | DC Conductor Resistance at 20ᵒC : 12.1Ω/km |  |
|  | AC Conductor Resistance at 70ᵒC : 14.5Ω/km |  |
|  | Phase: Live, Netral and Earth |  |
|  | Conductor: Plain copper |  |
|  | Thickness of Isulation (mm): 0.7 |  |
|  | Thickness of Sheath (mm): 1.4 |  |
|  | Colour of Cores: Red, Black, Bare Copper |  |
|  | Lenght per coil: 100m |  |
|  | **4x25mm2 Recline Cable (PVC Insulated non armoured aluminium cable)** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard:NIS/IEC60227 IEC60502 IEC60331 |  |
|  | Max Rated Voltage: 1,000V |  |
|  | Conductor: Aluminium |  |
|  | Insulation: PVC, high strenght, Black |  |
|  | **1x16mm2 Earthing cable** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **TECHNICAL DATA** |  |
|  | Standard:NIS/IEC60227 IEC60502 IEC60331 |  |
|  | Current Carrying capacity: in conduit 65A |  |
|  | DC Conductor Resistance at 20ᵒC : 1.15Ω/km |  |
|  | AC Conductor Resistance at 70ᵒC : 1.38Ω/km |  |
|  | Conductor: copper |  |
|  | Sheilding : PVC |  |
|  | Colour : Green and Yellow |  |
|  | Conductor Shape: Circular stranded compacted (CC) |  |
|  | **Underground Marking Tape** |  |
|  | **MANUFACTURER:** | Specify: |
|  | **MODEL:** | Specify: |
|  | **COUNTRY OF MANUFACTURE:** | Specify: |
|  | **DATA SHEET** |  |
|  | Standard:NIS/IEC60227 IEC60502 IEC60331 |  |
|  | Thickness Overall: 0.8mm |  |
|  | 3" Tensile: 109N, 18.6MPA |  |
|  | Elongation : 500% |  |
|  | PPT Resistance: 60N |  |
|  | Printerbility: 40Dynes |  |
|  | Printed Message: LV CABLE UNDERGROUND or equivalent message in permanent ink print |  |
|  | Material Colour: Red or Yellow |  |
|  | **BIDDERS MUST SUPPLY THE FOLLOWING INFORMATION:** |  |
|  | **SERVICE SUPPORT** |  |
|  | Name and address of your local agent in the country stated. The following details must be included:-* + 1. Name
		2. Address
		3. Phone number
		4. Fax number
		5. Email
		6. Website
 | Specify: |
|  | Years that agent has been established in the country stated. | Specify: |
|  | Numbers and types of technical staff employed. | Specify: |
|  | **Note that following delivery under any contract for supply, the supplier shall be responsible for ensuring that the Principal and End-User are provided with any service updates, service bulletins, safety notices, etc. either direct or via the local agent.** |  |
|  | **WARRANTY** |  |
|  | Provision of at least 5 years warranty from the manufacturer is expected. |  |
|  | How will warranty claims be honoured?  | Specify: |
|  | Please provide details of the warranty conditions that will apply to this offer. | Specify: |
|  | **DOCUMENTATION REQUIRED WITH THE OFFER** |  |
|  | Full technical data sheets to be provided for all components included in the offer. |  |
|  | **TRAINING** |  |
|  | Please provide a fully detailed proposal for training in the following areas:- |  |
|  | Installation | Specify: |
|  | Operation | Specify: |

|  |  |  |
| --- | --- | --- |
|  | Maintenance | Specify: |