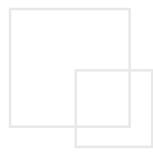




Hybrid Solar Power Plant







Hybrid Solar Power Plant

What is hybrid solar?

Solar hybrid power systems are hybrid power systems that combine solar power from a photovoltaic system with another power generating energy source or grid energy. Extra power generated from solar is stored in a battery for use at nighttime or at times when solar energy is not available.

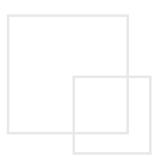
How does a hybrid solar power system work?

The arrangement of solar modules absorbs the sunlight on them and converts them into electricity. The current generated here is Direct Current (DC). The solar inverter then converts the DC to Alternating Current (AC), thus making it power the electrical items and stores extra energy in the battery for future usage.

What are the benefits of a hybrid solar power plant?

- 1. Reduce electricity bills
- 2. Power backup during powercut

For frequently asked questions visit: https://www.aliensolar.com/faq



Hybrid: HYBD1A

Model Number: HYBD1A Solar Power Plant: 1 kW

Connection Type: 1-Phase Charge Controller: PWM

Transformer: Transformer Based

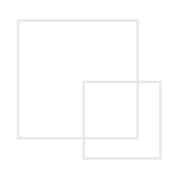
Maximum Load: 800 W Battery Backup: 1 hour

Annual Electricity Generation: 1300 kWh Annual Savings On Electricity Bill: Rs 8700 Annual Savings On CO2 Emission: 1040 kg

Space Required for Installation: 100 Square Feet

| | | HYBD1A | | |
|----|-----------------------------------|---|----------|------|
| SN | Item | Description | Quantity | Unit |
| 1 | Solar Module | 335 Wp Polycrystalline, Tier 1, BIS Certified Make: Waaree/Vikram/Panasonic/Canadian | 3 | Nos |
| 2 | Solar Inverter | Hybrid Inverter 1P with Inbuild PWM Charge Controller (Transformer Based) Size: 1000 W Make: Luminous/UTL/Equivalent | 1 | No |
| 3 | Solar Battery | Solar Battery Lead Acid Tubular Size: 12V-100Ah Make: Exide/Luminous | 2 | Nos |
| 4 | Module Mounting Structure | Module mounting structure of Galvanized Iron / Anodized Aluminium with Adjustable Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent | 1 | Set |
| 5 | Solar DC Cable | DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 30 | m |
| 6 | LT Cable | LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 10 | m |
| 7 | DCDB | DC Distribution Box with PV Fuse & DC SPD Type II | 1 | Set |
| 8 | ACDB | AC Distribution Box with AC MCB, AC SPD & Line Indicator | 1 | Set |
| 9 | Electrical Accessories | Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant | 1 | Lot |
| 10 | Civil Material | Civil Material as Required for Pedestal/Foundation Work | 1 | Lot |
| 11 | Earthing Protection | 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 1 Nos Pit at AC Side: 1 Nos | 2 | Set |
| 12 | Lightning Arrester | 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber | 1 | Set |
| 13 | Miscellaneous | Transportation, Caution Board, Safety Signage etc | 1 | Set |
| 14 | Installation and Commissioning | Design, Engineering, Supply, Testing, Installation & Commissioning | 1 | Set |





Hybrid: HYBD1B

Model Number: HYBD1B Solar Power Plant: 1 kW

Connection Type: 1-Phase Charge Controller: MPPT

Transformer: Transformer Less

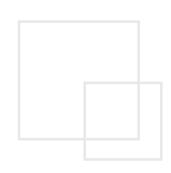
Maximum Load: 800 W Battery Backup: 1 hour

Annual Electricity Generation: 1300 kWh Annual Savings On Electricity Bill: Rs 8700 Annual Savings On CO2 Emission: 1040 kg

Space Required for Installation: 100 Square Feet

| HYBD1B | | | | |
|--------|---------------------------------|---|----------|------|
| SN | Item | Description | Quantity | Unit |
| 1 | Solar Module | 335 Wp Polycrystalline, Tier 1, BIS Certified Make : Waaree/Vikram/Panasonic/Canadian | 3 | Nos |
| 2 | Solar Inverter | Hybrid Inverter 1P with Inbuild MPPT Charge Controller (Transformer Less) Size: 1000 W Make: Flin Energy/Growatt/Equivalent | 1 | No |
| 3 | Solar Battery | Solar Battery Lead Acid Tubular Size: 12V-100Ah Make: Exide/Luminous | 2 | Nos |
| 4 | Module Mounting Structure | Module mounting structure of Galvanized Iron / Anodized Aluminium with Adjustable Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent | 1 | Set |
| 5 | Solar DC Cable | DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 30 | m |
| 6 | LT Cable | LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 10 | m |
| 7 | DCDB | DC Distribution Box with PV Fuse & DC SPD Type II | 1 | Set |
| 8 | ACDB | AC Distribution Box with AC MCB, AC SPD & Line Indicator | 1 | Set |
| 9 | Electrical Accessories | Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant | 1 | Lot |
| 10 | Civil Material | Civil Material as Required for Pedestal/Foundation Work | 1 | Lot |
| 11 | Earthing Protection | 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 1 Nos Pit at AC Side: 1 Nos | 2 | Set |
| 12 | Lightning Arrester | 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber | 1 | Set |
| 13 | Miscellaneous | Transportation, Caution Board, Safety Signage etc | 1 | Set |
| 14 | Installation and Commissioning | Design, Engineering, Supply, Testing, Installation & Commissioning | 1 | Set |





Hybrid: HYBD2A

Model Number: HYBD2A Solar Power Plant: 2 kW Connection Type: 1-Phase Charge Controller: PWM

Transformer: Transformer Based

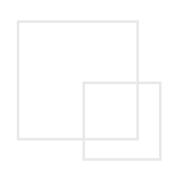
Maximum Load: 1600 W Battery Backup: 1 hour

Annual Electricity Generation: 2600 kWh Annual Savings On Electricity Bill: Rs 17400 Annual Savings On CO2 Emission: 2080 kg

Space Required for Installation: 200 Square Feet

| | HYBD2A | | | | |
|----|-----------------------------------|---|----------|------|--|
| SN | Item | Description | Quantity | Unit | |
| 1 | Solar Module | 335 Wp Polycrystalline, Tier 1, BIS Certified Make: Waaree/Vikram/Panasonic/Canadian | 6 | Nos | |
| 2 | Solar Inverter | Hybrid Inverter 1P with Inbuilt PWM Charge Controller (Transformer Based) Size: 2000 W Make: Luminous/UTL/Equivalent | 1 | No | |
| 3 | Solar Battery | Solar Battery Lead Acid Tubular Size: 12V-100Ah Make: Exide/Luminous | 4 | Nos | |
| 4 | Module Mounting Structure | Module mounting structure of Galvanized Iron / Anodized Aluminium with Adjustable Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent | 1 | Set | |
| 5 | Solar DC Cable | DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 60 | m | |
| 6 | LT Cable | LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 20 | m | |
| 7 | DCDB | DC Distribution Box with PV Fuse & DC SPD Type II | 1 | Set | |
| 8 | ACDB | AC Distribution Box with AC MCB, AC SPD & Line Indicator | 1 | Set | |
| 9 | Electrical Accessories | Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant | 1 | Lot | |
| 10 | Civil Material | Civil Material as Required for Pedestal/Foundation Work | 1 | Lot | |
| 11 | Earthing Protection | 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 1 Nos Pit at AC Side: 1 Nos | 2 | Set | |
| 12 | Lightning Arrester | 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber | 1 | Set | |
| 13 | Miscellaneous | Transportation, Caution Board, Safety Signage etc | 1 | Set | |
| 14 | Installation and Commissioning | Design, Engineering, Supply, Testing, Installation & Commissioning | 1 | Set | |





Hybrid: HYBD2B

Model Number: HYBD2B Solar Power Plant: 2 kW Connection Type: 1-Phase Charge Controller: MPPT

Transformer: Transformer Less

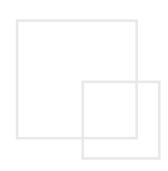
Maximum Load: 1600 W Battery Backup: 1 hour

Annual Electricity Generation: 2600 kWh Annual Savings On Electricity Bill: Rs 17400 Annual Savings On CO2 Emission: 2080 kg

Space Required for Installation: 200 Square Feet

| HYBD2B | | | | |
|--------|-----------------------------------|---|----------|------|
| SN | Item | Description | Quantity | Unit |
| 1 | Solar Module | 335 Wp Polycrystalline, Tier 1, BIS Certified Make: Waaree/Vikram/Panasonic/Canadian | 6 | Nos |
| 2 | Solar Inverter | Hybrid Inverter 1P with Inbuilt MPPT Charge Controller (Transformer Less) Size: 2000 W Make: Flin Energy/Growatt/Equivalent | 1 | No |
| 3 | Solar Battery | Solar Battery Lead Acid Tubular Size: 12V-100Ah Make: Exide/Luminous | 4 | Nos |
| 4 | Module Mounting Structure | Module mounting structure of Galvanized Iron / Anodized Aluminium with Adjustable Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent | 1 | Set |
| 5 | Solar DC Cable | DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 60 | m |
| 6 | LT Cable | LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 20 | m |
| 7 | DCDB | DC Distribution Box with PV Fuse & DC SPD Type II | 1 | Set |
| 8 | ACDB | AC Distribution Box with AC MCB, AC SPD & Line Indicator | 1 | Set |
| 9 | Electrical Accessories | Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant | 1 | Lot |
| 10 | Civil Material | Civil Material as Required for Pedestal/Foundation Work | 1 | Lot |
| 11 | Earthing Protection | 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 1 Nos Pit at AC Side: 1 Nos | 2 | Set |
| 12 | Lightning Arrester | 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber | 1 | Set |
| 13 | Miscellaneous | Transportation, Caution Board, Safety Signage etc | 1 | Set |
| 14 | Installation and Commissioning | Design, Engineering, Supply, Testing, Installation & Commissioning | 1 | Set |





Hybrid: HYBD3A

Model Number: HYBD3A Solar Power Plant: 3 kW Connection Type: 1-Phase Charge Controller: MPPT

Transformer: Transformer Based

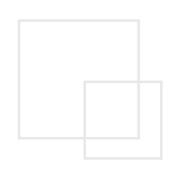
Maximum Load: 2400 W Battery Backup: 1 hour

Annual Electricity Generation: 3900 kWh Annual Savings On Electricity Bill: Rs 26100 Annual Savings On CO2 Emission: 3120 kg

Space Required for Installation: 300 Square Feet

| | HYBD3A | | | | |
|----|-----------------------------------|---|----------|------|--|
| SN | Item | Description | Quantity | Unit | |
| 1 | Solar Module | 335 Wp Polycrystalline, Tier 1, BIS Certified Make: Waaree/Vikram/Panasonic/Canadian | 10 | Nos | |
| 2 | Solar Inverter | Hybrid Inverter 1P with Inbuilt MPPT Charge Controller (Transformer Based) Size: 3000 W Make: Luminous/UTL/Equivalent | 1 | No | |
| 3 | Solar Battery | Solar Battery Lead Acid Tubular Size: 12V-150Ah Make: Exide/Luminous | 4 | Nos | |
| 3 | Module Mounting Structure | Module mounting structure of Galvanized Iron / Anodized Aluminium with Adjustable Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent | 1 | Set | |
| 4 | Solar DC Cable | DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 90 | m | |
| 5 | LT Cable | LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 30 | m | |
| 6 | DCDB | DC Distribution Box with PV Fuse & DC SPD Type II | 1 | Set | |
| 7 | ACDB | AC Distribution Box with AC MCB, AC SPD & Line Indicator | 1 | Set | |
| 8 | Electrical Accessories | Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant | 1 | Lot | |
| 9 | Civil Material | Civil Material as Required for Pedestal/Foundation Work | 1 | Lot | |
| 10 | Earthing Protection | 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 1 Nos Pit at AC Side: 1 Nos | 2 | Set | |
| 11 | Lightning Arrester | 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber | 1 | Set | |
| 13 | Miscellaneous | Transportation, Caution Board, Safety Signage etc | 1 | Set | |
| 12 | Installation and Commissioning | Design, Engineering, Supply, Testing, Installation & Commissioning | 1 | Set | |





Hybrid: HYBD3B

Model Number: HYBD3B Solar Power Plant: 3 kW Connection Type: 1-Phase Charge Controller: MPPT

Transformer: Transformer Less

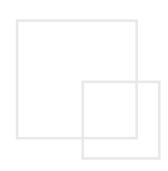
Maximum Load: 2400 W Battery Backup: 1 hour

Annual Electricity Generation: 3900 kWh Annual Savings On Electricity Bill: Rs 26100 Annual Savings On CO2 Emission: 3120 kg

Space Required for Installation: 300 Square Feet

| HYBD3B | | | | |
|--------|-----------------------------------|---|----------|------|
| SN | Item | Description | Quantity | Unit |
| 1 | Solar Module | 335 Wp Polycrystalline, Tier 1, BIS Certified Make: Waaree/Vikram/Panasonic/Canadian | 10 | Nos |
| 2 | Solar Inverter | Hybrid Inverter 3P with Inbuilt MPPT Charge Controller (Transformer Less) Size: 3000 W Make: Flin Energy/Growatt/Equivalent | 1 | No |
| 3 | Solar Battery | Solar Battery Lead Acid Tubular Size: 12V-150Ah Make: Exide/Luminous | 4 | Nos |
| 3 | Module Mounting Structure | Module mounting structure of Galvanized Iron / Anodized Aluminium with Adjustable Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent | 1 | Set |
| 4 | Solar DC Cable | DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 90 | m |
| 5 | LT Cable | LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 30 | m |
| 6 | DCDB | DC Distribution Box with PV Fuse & DC SPD Type II | 1 | Set |
| 7 | ACDB | AC Distribution Box with AC MCB, AC SPD & Line Indicator | 1 | Set |
| 8 | Electrical Accessories | Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant | 1 | Lot |
| 9 | Civil Material | Civil Material as Required for Pedestal/Foundation Work | 1 | Lot |
| 10 | Earthing Protection | 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 1 Nos Pit at AC Side: 1 Nos | 2 | Set |
| 11 | Lightning Arrester | 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber | 1 | Set |
| 13 | Miscellaneous | Transportation, Caution Board, Safety Signage etc | 1 | Set |
| 14 | Installation and Commissioning | Design, Engineering, Supply, Testing, Installation & Commissioning | 1 | Set |





Hybrid: HYBD4A

Model Number: HYBD4A Solar Power Plant: 4 kW Connection Type: 1-Phase Charge Controller: MPPT

Transformer: Transformer Based

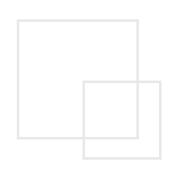
Maximum Load: 3200 W Battery Backup: 1 hour

Annual Electricity Generation: 5200 kWh Annual Savings On Electricity Bill: Rs 34800 Annual Savings On CO2 Emission: 4160 kg

Space Required for Installation: 400 Square Feet

| | • | HYBD4A | | |
|----|-----------------------------------|---|----------|------|
| SN | Item | Description | Quantity | Unit |
| 1 | Solar Module | 335 Wp Polycrystalline, Tier 1, BIS Certified Make: Waaree/Vikram/Panasonic/Canadian | 12 | Nos |
| 2 | Solar Inverter | Hybrid Inverter 1P with Inbuilt MPPT Charge Controller (Transformer Based) Size: 4000 W Make: Luminous/UTL/Equivalent | 1 | No |
| 3 | Solar Battery | Solar Battery Lead Acid Tubular Size: 12V-100Ah Make: Exide/Luminous | 8 | Nos |
| 4 | Module Mounting Structure | Module mounting structure of Galvanized Iron / Anodized Aluminium with Adjustable Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent | 1 | Set |
| 5 | Solar DC Cable | DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 120 | m |
| 6 | LT Cable | LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 30 | m |
| 7 | DCDB | DC Distribution Box with PV Fuse & DC SPD Type II | 1 | Set |
| 8 | ACDB | AC Distribution Box with AC MCB, AC SPD & Line Indicator | 1 | Set |
| 9 | Electrical Accessories | Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant | 1 | Lot |
| 10 | Civil Material | Civil Material as Required for Pedestal/Foundation Work | 1 | Lot |
| 11 | Earthing Protection | 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos | 4 | Set |
| 12 | Lightning Arrester | 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber | 1 | Set |
| 13 | Miscellaneous | Transportation, Caution Board, Safety Signage etc | 1 | Set |
| 14 | Installation and Commissioning | Design, Engineering, Supply, Testing, Installation & Commissioning | 1 | Set |





Hybrid: HYBD4B

Model Number: HYBD4B Solar Power Plant: 4 kW Connection Type: 1-Phase Charge Controller: MPPT

Transformer: Transformer Less

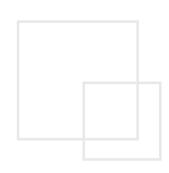
Maximum Load: 3200 W Battery Backup: 1 hour

Annual Electricity Generation: 5200 kWh Annual Savings On Electricity Bill: Rs 34800 Annual Savings On CO2 Emission: 4160 kg

Space Required for Installation: 400 Square Feet

| HYBD4B | | | | |
|--------|-----------------------------------|---|----------|------|
| SN | Item | Description | Quantity | Unit |
| 1 | Solar Module | 335 Wp Polycrystalline, Tier 1, BIS Certified Make: Waaree/Vikram/Panasonic/Canadian | 12 | Nos |
| 2 | Solar Inverter | Hybrid Inverter 3P with Inbuilt MPPT Charge Controller (Transformer Based) Size: 4000 W Make: Flin Energy/Growatt/Equivalent | 1 | No |
| 3 | Solar Battery | Solar Battery Lead Acid Tubular Size: 12V-100Ah Make: Exide/Luminous | 8 | Nos |
| 4 | Module Mounting Structure | Module mounting structure of Galvanized Iron / Anodized Aluminium with Adjustable Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent | 1 | Set |
| 5 | Solar DC Cable | DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 120 | m |
| 6 | LT Cable | LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 30 | m |
| 7 | DCDB | DC Distribution Box with PV Fuse & DC SPD Type II | 1 | Set |
| 8 | ACDB | AC Distribution Box with AC MCB, AC SPD & Line Indicator | 1 | Set |
| 9 | Electrical Accessories | Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant | 1 | Lot |
| 10 | Civil Material | Civil Material as Required for Pedestal/Foundation Work | 1 | Lot |
| 11 | Earthing Protection | 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos | 4 | Set |
| 12 | Lightning Arrester | 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber | 1 | Set |
| 13 | Miscellaneous | Transportation, Caution Board, Safety Signage etc | 1 | Set |
| 14 | Installation and Commissioning | Design, Engineering, Supply, Testing, Installation & Commissioning | 1 | Set |





Hybrid: HYBD5A

Model Number: HYBD5A Solar Power Plant: 5 kW Connection Type: 1-Phase Charge Controller: MPPT

Transformer: Transformer Based

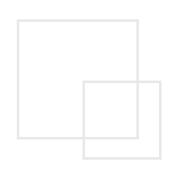
Maximum Load: 4000 W Battery Backup: 1 hour

Annual Electricity Generation: 6500 kWh Annual Savings On Electricity Bill: Rs 43500 Annual Savings On CO2 Emission: 5200 kg

Space Required for Installation: 500 Square Feet

| | | HYBD5A | | |
|----|-----------------------------------|---|----------|------|
| SN | Item | Description | Quantity | Unit |
| 1 | Solar Module | 335 Wp Polycrystalline, Tier 1, BIS Certified Make: Waaree/Vikram/Panasonic/Canadian | 16 | Nos |
| 2 | Solar Inverter | Hybrid Inverter 1P with Inbuilt MPPT Charge Controller (Transformer Based) Size: 5000 W Make: Luminous/UTL/Equivalent | 1 | No |
| 3 | Solar Battery | Solar Battery Lead Acid Tubular Size: 12V-100Ah Make: Exide/Luminous | 8 | Nos |
| 4 | Module Mounting Structure | Module mounting structure of Galvanized Iron / Anodized Aluminium with Adjustable Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent | 1 | Set |
| 5 | Solar DC Cable | DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 150 | m |
| 6 | LT Cable | LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 30 | m |
| 7 | DCDB | DC Distribution Box with PV Fuse & DC SPD Type II | 1 | Set |
| 8 | ACDB | AC Distribution Box with AC MCB, AC SPD & Line Indicator | 1 | Set |
| 9 | Electrical Accessories | Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant | 1 | Lot |
| 10 | Civil Material | Civil Material as Required for Pedestal/Foundation Work | 1 | Lot |
| 11 | Earthing Protection | 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos | 4 | Set |
| 12 | Lightning Arrester | 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber | 1 | Set |
| 13 | Miscellaneous | Transportation, Caution Board, Safety Signage etc | 1 | Set |
| 14 | Installation and Commissioning | Design, Engineering, Supply, Testing, Installation & Commissioning | 1 | Set |





Hybrid: HYBD5B

Model Number: HYBD5B Solar Power Plant: 5 kW

Connection Type: 3-Phase Charge Controller: MPPT

Transformer: Transformer Less

Maximum Load: 4000 W Battery Backup: 1 hour

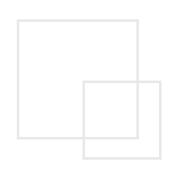
Annual Electricity Generation: 6500 kWh Annual Savings On Electricity Bill: Rs 43500

Annual Savings On CO2 Emission: 5200 kg

Space Required for Installation: 500 Square Feet

| HYBD5B | | | | |
|--------|-----------------------------------|---|----------|------|
| SN | Item | Description | Quantity | Unit |
| 1 | Solar Module | 335 Wp Polycrystalline, Tier 1, BIS Certified Make: Waaree/Vikram/Panasonic/Canadian | 16 | Nos |
| 2 | Solar Inverter | Hybrid Inverter 3P with Inbuilt MPPT Charge Controller (Transformer Less) Size: 5000 W Make: Flin Energy/Growatt/Equivalent | 1 | No |
| 3 | Solar Battery | Solar Battery Lead Acid Tubular Size: 12V-100Ah Make: Exide/Luminous | 8 | Nos |
| 4 | Module Mounting Structure | Module mounting structure of Galvanized Iron / Anodized Aluminium with Adjustable Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent | 1 | Set |
| 5 | Solar DC Cable | DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 150 | m |
| 6 | LT Cable | LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 30 | m |
| 7 | DCDB | DC Distribution Box with PV Fuse & DC SPD Type II | 1 | Set |
| 8 | ACDB | AC Distribution Box with AC MCB, AC SPD & Line Indicator | 1 | Set |
| 9 | Electrical Accessories | Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant | 1 | Lot |
| 10 | Civil Material | Civil Material as Required for Pedestal/Foundation Work | 1 | Lot |
| 11 | Earthing Protection | 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos | 4 | Set |
| 12 | Lightning Arrester | 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber | 1 | Set |
| 13 | Miscellaneous | Transportation, Caution Board, Safety Signage etc | 1 | Set |
| 14 | Installation and Commissioning | Design, Engineering, Supply, Testing, Installation & Commissioning | 1 | Set |





Hybrid: HYBD7A

Model Number: HYBD7A Solar Power Plant: 7 kW

Connection Type: 3-Phase Charge Controller: MPPT

Transformer: Transformer Based

Maximum Load: 5600 W Battery Backup: 1 hour

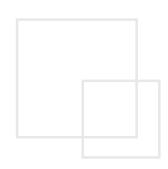
Annual Electricity Generation: 9100 kWh

Annual Savings On Electricity Bill: Rs 60900 Annual Savings On CO2 Emission: 7280 kg

Space Required for Installation: 700 Square Feet

| HYBD7A | | | | |
|--------|-----------------------------------|---|----------|------|
| SN | Item | Description | Quantity | Unit |
| 1 | Solar Module | 335 Wp Polycrystalline, Tier 1, BIS Certified Make: Waaree/Vikram/Panasonic/Canadian | 22 | Nos |
| 2 | Solar Inverter | Hybrid Inverter 3P with Inbuilt MPPT Charge Controller (Transformer Based) Size: 7000 W Make: Luminous/UTL/Equivalent | 1 | No |
| 3 | Solar Battery | Solar Battery Lead Acid Tubular Size: 12V-100Ah Make: Exide/Luminous | 10 | Nos |
| 4 | Module Mounting Structure | Module mounting structure of Galvanized Iron / Anodized Aluminium with Adjustable Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent | 1 | Set |
| 5 | Solar DC Cable | DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 210 | m |
| 6 | LT Cable | LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 30 | m |
| 7 | DCDB | DC Distribution Box with PV Fuse & DC SPD Type II | 1 | Set |
| 8 | ACDB | AC Distribution Box with AC MCB, AC SPD & Line Indicator | 1 | Set |
| 9 | Electrical Accessories | Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant | 1 | Lot |
| 10 | Civil Material | Civil Material as Required for Pedestal/Foundation Work | 1 | Lot |
| 11 | Earthing Protection | 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos | 4 | Set |
| 12 | Lightning Arrester | 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber | 1 | Set |
| 13 | Miscellaneous | Transportation, Caution Board, Safety Signage etc | 1 | Set |
| 14 | Installation and Commissioning | Design, Engineering, Supply, Testing, Installation & Commissioning | 1 | Set |





Hybrid: HYBD7B

Model Number: HYBD7B Solar Power Plant: 7 kW

Connection Type: 3-Phase Charge Controller: MPPT

Transformer: Transformer Less

Maximum Load: 5600 W Battery Backup: 1 hour

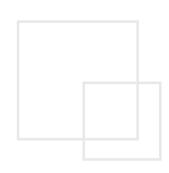
Annual Electricity Generation: 9100 kWh

Annual Savings On Electricity Bill: Rs 60900 Annual Savings On CO2 Emission: 7280 kg

Space Required for Installation: 700 Square Feet

| HYBD7B | | | | |
|--------|-----------------------------------|---|----------|------|
| SN | Item | Description | Quantity | Unit |
| 1 | Solar Module | 335 Wp Polycrystalline, Tier 1, BIS Certified Make: Waaree/Vikram/Panasonic/Canadian | 22 | Nos |
| 2 | Solar Inverter | Hybrid Inverter 3P with Inbuilt MPPT Charge Controller (Transformer Less) Size: 7000 W Make: Flin Energy/Growatt/Equivalent | 1 | No |
| 3 | Solar Battery | Solar Battery Lead Acid Tubular Size: 12V-100Ah Make: Exide/Luminous | 10 | Nos |
| 4 | Module Mounting Structure | Module mounting structure of Galvanized Iron / Anodized Aluminium with Adjustable Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent | 1 | Set |
| 5 | Solar DC Cable | DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 210 | m |
| 6 | LT Cable | LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | 30 | m |
| 7 | DCDB | DC Distribution Box with PV Fuse & DC SPD Type II | 1 | Set |
| 8 | ACDB | AC Distribution Box with AC MCB, AC SPD & Line Indicator | 1 | Set |
| 9 | Electrical Accessories | Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant | 1 | Lot |
| 10 | Civil Material | Civil Material as Required for Pedestal/Foundation Work | 1 | Lot |
| 11 | Earthing Protection | 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos | 4 | Set |
| 12 | Lightning Arrester | 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber | 1 | Set |
| 13 | Miscellaneous | Transportation, Caution Board, Safety Signage etc | 1 | Set |
| 14 | Installation and Commissioning | Design, Engineering, Supply, Testing, Installation & Commissioning | 1 | Set |





Hybrid: HYBD10A

Model Number: HYBD10A Solar Power Plant: 10 kW Connection Type: 3-Phase Charge Controller: MPPT

Transformer: Transformer Based

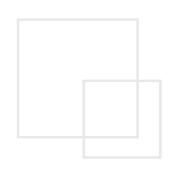
Maximum Load: 8000 W Battery Backup: 1 hour

Annual Electricity Generation: 13000 kWh Annual Savings On Electricity Bill: Rs 87100 Annual Savings On CO2 Emission: 10400 kg

Space Required for Installation: 1000 Square Feet

| SN Item | I I I I I I I I I I I I I I I I I I I | | | | | | | | |
|--|---------------------------------------|------------------|---|----------|------|--|--|--|--|
| 1 Solar Module Make: Waaree/Vikram/Panasonic/Canadian Hybrid Inverter 3P with Inbuilt MPPT Charge Controller (Transformer Based) Size: 10000 W Make: Luminous/UTL/Equivalent Solar Battery Lead Acid Tubular Size: 12V-150Ah Make: Exide/Luminous Module mounting structure of Galvanized Iron / Anodized Aluminium with Adjustable Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent DC Distribution Box with PV Fuse & DC SPD Type II Set DC Distribution Box with PV Fuse & DC SPD Type | CNI | HYBD10A | | | | | | | |
| Solar Module | SN | item | ' | Quantity | Unit | | | | |
| 2 Solar Inverter Hybrid Inverter 3P with Inbuilt MPPT Charge Controller (Transformer Based) Size: 10000 W Make: Luminous/UTL/Equivalent Solar Battery Solar Battery Lead Acid Tubular Size: 12V-150Ah Make: Exide/Luminous Module Mounting Structure Module Mounting Structure Module Mounting Structure Double Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent Double Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent Double Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent Double Tilt Gould Flat Roof Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm 2.1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm 2.1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent Double Double Tilt Gould Flat Roof Make: Havells/Polycab/Mescab/Equivalent Double Tilt Cables 2*6 mm 2.1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent Double Tilt Gould Flat Roof Make: Havells/Polycab/Mescab/Equivalent Double Tilt Roof Make: Havells/ | 1 | Solar Module | | 30 | Nos | | | | |
| Controller (Transformer Based) Size: 10000 W Make: Luminous/UTL/Equivalent | | | | | | | | | |
| Solar Inverter Size: 10000 W Make: Luminous/UTI/Equivalent Solar Battery Solar Battery Lead Acid Tubular Size: 12V-150Ah Make: Exide/Luminous Module Mounting Structure Module Mounting Structure Module Mounting Structure DC Solar Cables DC Solar Cables 1º4 mnz 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2º6 mmz 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent TO DCDB DC Distribution Box with PV Fuse & DC SPD Type II ACDB AC Distribution Box with AC MCB, AC SPD & Line Indicator Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material as Required for the Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Sid | | | , | | | | | | |
| Make: Luminous/UTL/Equivalent Solar Battery Solar Battery Lead Acid Tubular Size: 12V-15OAh Make: Exide/Luminous Module Mounting Structure Module Mounting Structure Make: Exide/Luminous Structure Make: Exide/Luminous Structure Make: Harsys/Strolar/Equivalent Set Make: Enersys/Strolar/Equivalent DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent DC Distribution Box with PV Fuse & DC SPD Type II Set Type II Set Make: Havells/Polycab/Mescab/Equivalent Set Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 1*4 mm2 1*5 m | 2 | Solar Inverter | · | 1 | No | | | | |
| Solar Battery Solar Battery Size: 12V-150Ah Make: Exide/Luminous Module Mounting Structure Module Mounting Structure Module Mounting Structure DC Solar Cables 1*4 mn2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mn2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent TO DCDB DC Distribution Box with PV Fuse & DC SPD Type II AC Distribution Box with AC MCB, AC SPD & Line Indicator Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories Rigid ACCessories as Required for the Power Plant Civil Material Civil Material Serving Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Serving Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Serving Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Serving Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Serving Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant 10 Civil Material Production Work 1 Lot 11 Earthing Protection 12 Lightning Arrester 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, 15 Set | | | | | | | | | |
| Solar Battery | | | | | | | | | |
| Module Mounting Structure Module mounting structure of Galvanized Iron / Anodized Aluminium with Adjustable Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent T DCDB DC Distribution Box with PV Fuse & DC SPD Type II ACDB ACDB ACDB Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories Civil Material Civil Material as Required for the Power Plant Civil Material as Required for the Power Plant Civil Material as Required for the Power Plant Earthing Protection Tam x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC | _ | Color Botton | · · · · · · · · · · · · · · · · · · · | 10 | | | | | |
| Module Mounting Structure DC Solar And Jenate Make: Enersys/Strolar/Equivalent DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 11. kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 11. kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent DC Distribution Box with PV Fuse & DC SPD Type II AC Distribution Box with PV Fuse & DC SPD Type II AC Distribution Box with AC MCB, AC SPD & 1 Set Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Civil Material as Required for Pedestal/Foundation Work 1 Lot Earthing Protection Earthing Protection Civil Material Seakfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Si | 3 | Solar Battery | | 10 | Nos | | | | |
| Iron / Anodized Aluminium with Adjustable Tilit for Shed / Flat Roof Make: Enersys/Strolar/Equivalent | | | | | | | | | |
| Tilt for Shed / Flat Roof Set | | Module | | | | | | | |
| Structure Make: Enersys/Strolar/Equivalent DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent DC Distribution Box with PV Fuse & DC SPD Type II ACDB AC | 4 | Mounting | I | 1 | Set | | | | |
| DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent DC Distribution Box with PV Fuse & DC SPD Type II ACDB ACDB ACDB ACDB ACDB ACDB ACDB ACD | | _ | | | | | | | |
| Solar DC Cable Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | | | | | | | | | |
| Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent DC Distribution Box with PV Fuse & DC SPD Type II AC Distribution Box with AC MCB, AC SPD & 1 Set Set Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Civil Material as Required for Pedestal/Foundation Work 1 Lot Earthing Protection Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 12 Lightning Arrester Arrester Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, 1 Set | | | | | | | | | |
| LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent DC Distribution Box with PV Fuse & DC SPD Type II AC Distribution Box with AC MCB, AC SPD & 1 Set Set Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories Civil Material Civil Material Sequired for Pedestal/Foundation Work Civil Material Sequired for Pedestal/Foundation Work Lim x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos Pi | 5 | Solar DC Cable | | 300 | m | | | | |
| Set | | | | | | | | | |
| Make: Havells/Polycab/Mescab/Equivalent DC Distribution Box with PV Fuse & DC SPD Type II AC Distribution Box with AC MCB, AC SPD & Line Indicator Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories Civil Material Civil Material Civil Material as Required for the Power Plant Civil Material Sequired for Pedestal/Foundation Work Im x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos Pit Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Transportation, Caution Board, Safety Signage etc Installation and Design, Engineering, Supply, Testing, Installation and Design, Engineering, Supply, Testing, | | LT Cable | | | | | | | |
| 7 DCDB DC Distribution Box with PV Fuse & DC SPD Type II AC Distribution Box with AC MCB, AC SPD & Line Indicator Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories Civil Material Civil Material Civil Material as Required for the Power Plant Civil Material Sequired for Pedestal/Foundation Work Im x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos Pit Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber To Set Miscellaneous Transportation, Caution Board, Safety Signage etc Installation and Design, Engineering, Supply, Testing, Installation and Design, Engineering, Supply, Testing, Installation and Design, Engineering, Supply, Testing, Installation and Post Set Set Set Set | 6 | | | 30 | m | | | | |
| Type II ACDB Type II Set Intel Indicator Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Sequired for Pedestal/Foundation Work Im x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Transportation, Caution Board, Safety Signage etc Installation and Design, Engineering, Supply, Testing, | | | | | | | | | |
| Type II AC Distribution Box with AC MCB, AC SPD & Line Indicator Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Civil Material as Required for Pedestal/Foundation Work 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos | 7 | DCDB | DC Distribution Box with PV Fuse & DC SPD | 1 | Set | | | | |
| B ACDB Line Indicator Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Civil Material as Required for Pedestal/Foundation Work 1 Lot Earthing Protection Earthing Protection Lightning Arrester Lightning Arrester Arrester Miscellaneous Line Indicator Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material as Required for Pedestal/Foundation Work 1 Lot Lot Lot Lot Lot Lot Lot Lot | | 5655 | | | 300 | | | | |
| Set Consider the compound of the compound | 8 | A C D B | AC Distribution Box with AC MCB, AC SPD & | 1 | Set | | | | |
| 9 Electrical Accessories Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant 10 Civil Material Civil Material as Required for Pedestal/Foundation Work 1 Lot 11 Earthing Flexible Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos Pit at AC Side: 2 Nos 12 mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Arrester Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, | | АСББ | | 1 | 301 | | | | |
| Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Civil Material as Required for Pedestal/Foundation Work 1 | | | | | | | | | |
| Accessories Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Civil Material as Required for Pedestal/Foundation Work 1 Lot Im x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos | | | | | | | | | |
| Electrical Accessories as Required for the Power Plant Civil Material Civil Material s Required for Pedestal/Foundation Work 1 Lot Image: Lightning Arrester Backfill Compound, 6 mm2 Lightning Arrester Backfill Compound, 6 mm2 12 Lightning Arrester Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos 12 mm Copper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, | 9 | | | 1 | Lot | | | | |
| Civil Material Civil Material as Required for Pedestal/Foundation Work 1 Lot 11 Earthing Protection Flexible Copper Earthing Cable, FRP Pit Chamber 12 Lightning Arrester Earthing Cable, FRP Pit Chamber 13 Miscellaneous Flexible Copper Earthing Cable, FRP Pit Chamber 14 Installation and Design, Engineering, Supply, Testing, 15 Lot 16 Lightning Arx 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 18 Miscellaneous Flexible Copper Earthing Cable, FRP Pit Chamber 19 Set Signage etc 10 Lot 10 Lot 11 Lot 12 Lot 12 Lot 13 Lot 14 Set Set | | | | | | | | | |
| 10 Civil Material Pedestal/Foundation Work 1 Lot Im x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos | | | Power Plant | | | | | | |
| Pedestal/Foundation Work Im x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos Pit at AC Side: 2 Nos 12 mm Copper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos 12 mm Copper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, 1 Set | 10 | Civil Material | | 1 | Lot | | | | |
| Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos 12 mm Copper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, 1 Set | 10 | Civil iviaterial | Pedestal/Foundation Work | 1 | LOT | | | | |
| 11 Earthing Protection Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos 12 mm Copper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, | | | | | | | | | |
| 11 Protection Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, 1 Set | | | | | | | | | |
| Protection Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos Pit at AC Side: 2 Nos 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, Design Signage | 11 | | Flexible Copper Earthing Cable, FRP Pit | 1 | Set | | | | |
| Pit at AC Side: 2 Nos 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, 1 Set | | | Chamber | 4 | | | | | |
| 12 Mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, Design Set | | | Pit at DC Side: 2 Nos | | | | | | |
| 12 Lightning Arrester Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, | | | Pit at AC Side: 2 Nos | | | | | | |
| Arrester Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, Design, Engineering, Supply, Testing, | 12 | | 12 mm Coper Lightning Arrester, 1m x | | | | | | |
| Arrester Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, 1 Set | | | 17.2mm Copper Bonded earth Electrode, | 1 | Sc+ | | | | |
| 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 1 Set 14 Installation and Design, Engineering, Supply, Testing, 1 Set | | | Backfill Compound, 6 mm2 Flexible Copper | 1 | 361 | | | | |
| 13 Miscellaneous Signage etc 1 Set 14 Installation and Design, Engineering, Supply, Testing, 1 Set | | | Earthing Cable, FRP Pit Chamber | | | | | | |
| Signage etc Signage etc 14 Installation and Design, Engineering, Supply, Testing, 1 Set | 13 | Miscellaneous | Transportation, Caution Board, Safety | 1 | Sot | | | | |
| 14 | | iviiscellaneous | Signage etc | Т | Set | | | | |
| Commissioning Installation & Commissioning | 14 | Installation and | Design, Engineering, Supply, Testing, | 1 | Sc+ | | | | |
| | | Commissioning | Installation & Commissioning | 1 | set | | | | |





Hybrid: HYBD10B

Model Number: HYBD10B Solar Power Plant: 10 kW Connection Type: 3-Phase Charge Controller: MPPT

Transformer: Transformer Less

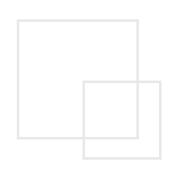
Maximum Load: 8000 W Battery Backup: 1 hour

Annual Electricity Generation: 13000 kWh Annual Savings On Electricity Bill: Rs 87100 Annual Savings On CO2 Emission: 10400 kg

Space Required for Installation: 1000 Square Feet

| SN Item | I I I I I I I I I I I I I I I I I I I | | | | | | | | |
|--|---------------------------------------|------------------|---|----------|------|--|--|--|--|
| 1 Solar Module Make: Waaree/Vikram/Panasonic/Canadian Hybrid Inverter 3P with Inbuilt MPPT Charge Controller (Transformer Less) Size: 10000 W Make: Filin Energy/Growatt/Equivalent Solar Battery Lead Acid Tubular Size: 12V-150Ah Make: Exide/Luminous Module Mounting Structure Module Mounting Structure Module Mounting Structure Make: Exide/Luminous Module Mounting Structure Of Galvanized Iron / Anodized Aluminium with Adjustable Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent Insulated Copper Make: Havells/Polycab/Mescab/Equivalent Insulated Copper Insulated Insul | CNI | HYBD10B | | | | | | | |
| Solar Module | SN | item | ' | Quantity | Unit | | | | |
| 2 Solar Inverter Hybrid Inverter 3P with Inbuilt MPPT Charge Controller (Transformer Less) Size: 10000 W Make: Flin Energy/Growatt/Equivalent Solar Battery Solar Battery Lead Acid Tubular Size: 12V-150Ah Make: Exide/Luminous Module Mounting Structure Module Mounting Structure Module Mounting Structure Double Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent Double Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent Double Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent Double Tilt Gould Flat Roof Make: Havells/Polycab/Mescab/Equivalent Double Tilt Cables 2*6 mm 2.1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent Double Tilt Cables 2*6 mm 2.1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent Double Tilt Cables 2*6 mm 2.1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent Double Tilt Cables 2*6 mm 2.1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent Double Tilt Cables 2*6 mm 2.1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent Double Tilt Cables 2*6 mm 2.1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent Double Tilt Cables 2*6 mm 2.1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent Double Tilt Cables 2*6 mm 2.1.1 kV Grade PVC Insulate Copper Make: Havells/Polycab/Mescab/Equivalent Double Tilt Cables 2*6 mm 2.1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent Double Tilt Cables 2*6 mm 2.1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent Double Tilt Robe Tilt R | 1 | Solar Module | | 30 | Nos | | | | |
| Controller (Transformer Less) Size: 10000 W Make: Filo Energy/Growatt/Equivalent | | | | | | | | | |
| Solar Inverter Size: 10000 W Make: Flin Energy/Growatt/Equivalent Solar Battery Solar Battery Lead Acid Tubular Size: 12V-150Ah Make: Exide/Luminous Module Mounting Structure Module Mounting Structure Double Solar DC Cable Double Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent Double Double Double Double Double Double Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent Double Doub | 2 | | , | | | | | | |
| Make: Flin Energy/Growatt/Equivalent Solar Battery Solar Battery Lead Acid Tubular Size: 12V-15OAh Make: Exide/Luminous Module Mounting Structure Module Mounting Structure Make: Exide/Luminous Structure Make: Exide/Luminous Structure Make: Harbor Make: Ha | | Solar Inverter | , | 1 | No | | | | |
| Solar Battery Solar Battery Size: 12V-150Ah Make: Exide/Luminous Module Mounting Structure Module Mounting Structure Module Mounting Structure DC Solar Cables 1*4 mn2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mn2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent TO DCDB DC Distribution Box with PV Fuse & DC SPD Type II AC Distribution Box with AC MCB, AC SPD & Line Indicator Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Civil Material Sereit as Required for Pedestal/Foundation Work 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos Pit at Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Transportation, Caution Board, Safety Signage etc Module mounting structure of Galvanized In Set Set Set Solar DC Ander Aller in Set Set Solar DC Ander Aller in Set Set Solar DC Ander Aller in Set Set Solar DC Cable Rodiner Structure of Galvanized In Set Set Solar DC Ander Aller in Set Set Solar DC Cable In Set Set Set Solar DC Ander Aller in Set Set Solar DC Ander Aller in Set Set Solar DC Cable In Set Set Set Solar DC Cable In Set Set Set Solar DC Cable In Set Set Solar DC Cable In Set Set Solar DC Cable In Set Set Solar DC Cable In Set Set Solar DC Set Solar DC Cable In Set Solar DC Cable In Set Set Solar DC Set Solar DC Cable In Set Solar DC Cable In Set Solar DC | | | | | | | | | |
| Solar Battery | | | | | | | | | |
| Module Mounting Structure Module mounting structure of Galvanized Iron / Anodized Aluminium with Adjustable Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent T DCDB DC Distribution Box with PV Fuse & DC SPD Type II ACDB ACDB ACDB Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories Civil Material Civil Material as Required for the Power Plant Civil Material as Required for the Power Plant Civil Material as Required for the Power Plant Earthing Protection Tam x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC | _ | Color Botton | | 10 | | | | | |
| Module Mounting Structure DC Solar And Jenate Make: Enersys/Strolar/Equivalent DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 11. kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 11. kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent DC Distribution Box with PV Fuse & DC SPD Type II AC Distribution Box with PV Fuse & DC SPD Type II AC Distribution Box with AC MCB, AC SPD & 1 Set Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Civil Material as Required for Pedestal/Foundation Work 1 Lot Earthing Protection Earthing Protection Civil Material Seakfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Si | 3 | Solar Battery | | 10 | Nos | | | | |
| Iron / Anodized Aluminium with Adjustable Tilt for Shed / Flat Roof Make: Enersys/Strolar/Equivalent 1 | | | | | | | | | |
| Tilt for Shed / Flat Roof Set | | Module | g . | | | | | | |
| Structure Make: Enersys/Strolar/Equivalent DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent DC Distribution Box with PV Fuse & DC SPD Type II ACDB AC | 4 | Mounting | , | 1 | Set | | | | |
| DC Solar Cables 1*4 mm2 1.1 kV Grade XLPO | | _ | | | | | | | |
| Solar DC Cable Insulated Copper Make: Havells/Polycab/Mescab/Equivalent | | | | | | | | | |
| Make: Havells/Polycab/Mescab/Equivalent LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent DC Distribution Box with PV Fuse & DC SPD Type II AC Distribution Box with AC MCB, AC SPD & 1 Set Set Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Civil Material as Required for Pedestal/Foundation Work 1 Lot Earthing Protection Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 12 Lightning Arrester Arrester Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, 1 Set | | | | | | | | | |
| LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper Make: Havells/Polycab/Mescab/Equivalent DC Distribution Box with PV Fuse & DC SPD Type II AC Distribution Box with AC MCB, AC SPD & 1 Set Set ACDB Electrical Accessories Electrical Accessories Civil Material Civil Material Civil Material Seath Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit at AC Side: 2 Nos Miscellaneous LT Cables 2*6 mm2 1.1 kV Grade PVC Insulated Copper | 5 | Solar DC Cable | | 300 | m | | | | |
| Set | | | | | | | | | |
| Make: Havells/Polycab/Mescab/Equivalent DC Distribution Box with PV Fuse & DC SPD Type II AC Distribution Box with AC MCB, AC SPD & Line Indicator Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories Civil Material Civil Material Civil Material as Required for the Power Plant Civil Material Sequired for Pedestal/Foundation Work Im x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos Pit Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Transportation, Caution Board, Safety Signage etc Installation and Design, Engineering, Supply, Testing, Installation and Design, Engineering, Supply, Testing, | | LT Cable | | | | | | | |
| 7 DCDB DC Distribution Box with PV Fuse & DC SPD Type II AC Distribution Box with AC MCB, AC SPD & Line Indicator Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories Civil Material Civil Material Civil Material as Required for the Power Plant Civil Material Sequired for Pedestal/Foundation Work Im x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos Pit Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber To Set Miscellaneous Transportation, Caution Board, Safety Signage etc Installation and Design, Engineering, Supply, Testing, Installation and Design, Engineering, Supply, Testing, Installation and Design, Engineering, Supply, Testing, Installation and Post Set Set Set Set | 6 | | | 30 | m | | | | |
| Type II ACDB Type II Set Intel Indicator Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Sequired for Pedestal/Foundation Work Im x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Transportation, Caution Board, Safety Signage etc Installation and Design, Engineering, Supply, Testing, | | | | | | | | | |
| Type II AC Distribution Box with AC MCB, AC SPD & Line Indicator Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Civil Material as Required for Pedestal/Foundation Work 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos | 7 | DCDB | DC Distribution Box with PV Fuse & DC SPD | 1 | Set | | | | |
| B ACDB Line Indicator Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Civil Material as Required for Pedestal/Foundation Work 1 Lot Earthing Protection Earthing Protection Lightning Arrester Lightning Arrester Arrester Miscellaneous Line Indicator Rigid PVC Wiring Conduit, Cable Tray, MC4 Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material as Required for Pedestal/Foundation Work 1 Lot Lot Lot Lot Lot Lot Lot Lot | | 5655 | | _ | 300 | | | | |
| Set Consider the compound of the compound | 8 | A C D B | AC Distribution Box with AC MCB, AC SPD & | 1 | Set | | | | |
| 9 Electrical Accessories Connectors, Saddle, Lugs, Bullets, Screw, Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant 10 Civil Material Civil Material as Required for Pedestal/Foundation Work 1 Lot 11 Earthing Flexible Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos Pit at AC Side: 2 Nos 12 mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Arrester Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, | | АСББ | | _ | 301 | | | | |
| Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Civil Material as Required for Pedestal/Foundation Work 1 | | | | | | | | | |
| Accessories Fasteners, Gland, Ferrule, Cable Tie & Other Electrical Accessories as Required for the Power Plant Civil Material Civil Material as Required for Pedestal/Foundation Work 1 Lot Im x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos | | | | | | | | | |
| Electrical Accessories as Required for the Power Plant Civil Material Civil Material s Required for Pedestal/Foundation Work 1 Lot Image: Lightning Arrester Backfill Compound, 6 mm2 Lightning Arrester Backfill Compound, 6 mm2 12 Lightning Arrester Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos 12 mm Copper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, | 9 | | | 1 | Lot | | | | |
| Civil Material Civil Material as Required for Pedestal/Foundation Work 1 Lot 11 Earthing Protection Flexible Copper Earthing Cable, FRP Pit Chamber 12 Lightning Arrester Earthing Cable, FRP Pit Chamber 13 Miscellaneous Flexible Copper Earthing Cable, FRP Pit Chamber 14 Installation and Design, Engineering, Supply, Testing, 15 Lot 16 Lightning Arx 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 18 Miscellaneous Flexible Copper Earthing Cable, FRP Pit Chamber 19 Set Signage etc 10 Lot 10 Lot 11 Lot 12 Lot 12 Lot 13 Lot 14 Set Set | | | | | | | | | |
| 10 Civil Material Pedestal/Foundation Work 1 Lot Im x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos | | | | | | | | | |
| Pedestal/Foundation Work Im x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos Pit at AC Side: 2 Nos 12 mm Copper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos 12 mm Copper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, 1 Set | 10 | Civil Material | | 1 | Lot | | | | |
| Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos 12 mm Copper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, 1 Set | 10 | CIVII IVIACCIIAI | Pedestal/Foundation Work | _ | LOT | | | | |
| 11 Earthing Protection Flexible Copper Earthing Cable, FRP Pit Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos 12 mm Copper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, | | | | | | | | | |
| 11 Protection Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, 1 Set | | | | | | | | | |
| Protection Chamber Pit at DC Side: 2 Nos Pit at AC Side: 2 Nos Pit at AC Side: 2 Nos 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, Design Signage | 11 | | Flexible Copper Earthing Cable, FRP Pit | 1 | Set | | | | |
| Pit at AC Side: 2 Nos 12 mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, 1 Set | | | Chamber | 4 | | | | | |
| 12 Mm Coper Lightning Arrester, 1m x 17.2mm Copper Bonded earth Electrode, Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, Design Set | | | Pit at DC Side: 2 Nos | | | | | | |
| 12 Lightning Arrester Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, | | | Pit at AC Side: 2 Nos | | | | | | |
| Arrester Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, Design, Engineering, Supply, Testing, | 12 | | 12 mm Coper Lightning Arrester, 1m x | | | | | | |
| Arrester Backfill Compound, 6 mm2 Flexible Copper Earthing Cable, FRP Pit Chamber 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 14 Installation and Design, Engineering, Supply, Testing, 1 Set | | | 17.2mm Copper Bonded earth Electrode, | 1 | Sc+ | | | | |
| 13 Miscellaneous Transportation, Caution Board, Safety Signage etc 1 Set 14 Installation and Design, Engineering, Supply, Testing, 1 Set | | | Backfill Compound, 6 mm2 Flexible Copper | | 361 | | | | |
| 13 Miscellaneous Signage etc 1 Set 14 Installation and Design, Engineering, Supply, Testing, 1 Set | | | Earthing Cable, FRP Pit Chamber | | | | | | |
| Signage etc Signage etc 14 Installation and Design, Engineering, Supply, Testing, 1 Set | 13 | Miscellaneous | Transportation, Caution Board, Safety | 1 | Sot | | | | |
| 14 | | iviiscellaneous | Signage etc | 1 | Set | | | | |
| Commissioning Installation & Commissioning | 14 | Installation and | Design, Engineering, Supply, Testing, | 1 | Sc+ | | | | |
| | | Commissioning | Installation & Commissioning | 1 | set | | | | |





Hybrid: Summary

| | | | | Hybrid Sol | ar Power | Plant | | | |
|----|---------|----------------|--------------------|-----------------|-------------------|---------------------|----------------------|-------------------|-----------------|
| SN | Model | System Size | Connection Type | Maximum Load | Battery Backup | Space Required | Annual Generation | Annual Savings | System Price |
| 1 | HYBD1A | 1 kW | 1-Phase | 800 W | 1 hour | 100 Square Feet | 1300 kWh | Rs 8700 | Rs 99000 |
| 2 | HYBD1B | 1 kW | 1-Phase | 800 W | 1 hour | 100 Square Feet | 1300 kWh | Rs 8700 | Rs 143000 |
| 3 | HYBD2A | 2 kW | 1-Phase | 1600 W | 1 hour | 200 Square Feet | 2600 kWh | Rs 17400 | Rs 200000 |
| 4 | HYBD2B | 2 kW | 1-Phase | 1600 W | 1 hour | 200 Square Feet | 2600 kWh | Rs 17400 | Rs 241000 |
| 5 | HYBD3A | 3 kW | 1-Phase | 2400 W | 1 hour | 300 Square Feet | 3900 kWh | Rs 26100 | Rs 273000 |
| 6 | HYBD3B | 3 kW | 1-Phase | 2400 W | 1 hour | 300 Square Feet | 3900 kWh | Rs 26100 | Rs 314000 |
| 7 | HYBD4A | 4 kW | 1-Phase | 3200 W | 1 hour | 400 Square Feet | 5200 kWh | Rs 34800 | Rs 363000 |
| 8 | HYBD4B | 4 kW | 1-Phase | 3200 W | 1 hour | 400 Square Feet | 5200 kWh | Rs 34800 | Rs 378000 |
| 9 | HYBD5A | 5 kW | 1-Phase | 4000 W | 1 hour | 500 Square Feet | 6500 kWh | Rs 43500 | Rs 418000 |
| 10 | HYBD5B | 5 kW | 3-Phase | 4000 W | 1 hour | 500 Square Feet | 6500 kWh | Rs 43500 | Rs 450000 |
| 11 | HYBD7A | 7 kW | 3-Phase | 5600 W | 1 hour | 700 Square Feet | 9100 kWh | Rs 60900 | Rs 530000 |
| 12 | HYBD7B | 7 kW | 3-Phase | 5600 W | 1 hour | 700 Square Feet | 9100 kWh | Rs 60900 | Rs 567000 |
| 13 | HYBD10A | 10 kW | 3-Phase | 8000 W | 1 hour | 1000 Square Feet | 13000 kWh | Rs 87100 | Rs 703000 |
| 14 | HYBD10B | 10 kW | 3-Phase | 8000 W | 1 hour | 1000 Square Feet | 13000 kWh | Rs 87100 | Rs 744000 |



Hybrid: Terms and Conditions

Warranty:

Solar Panels linear power generation warranty 25 years.

Solar inverter warranty 5 years.

Solar battery warranty 5 years.

Comprehensive system warranty 1 year.

Operations & Maintenance:

First, 1-year operations and maintenance are free. After 1-year charges will be applicable at Rs 1000 per visit.

Brand:

The product band is subject to availability in the stock. Warranty remains the same.

Payment Terms:

40% advance, 40% before delivery of the solar panels, remaining 20% within one week of the completion of the solar power plant.

Project Timeline:

The whole solar power plant takes 2-4 weeks to complete.

Net Metering:

Net Metering can take 1-6 months for the DISCOM to process. During this time period, the solar power plant will be equipped with zero export devices and will be operating as usual without export. Once the net meter is available, the export will be activated.

Superstructure:

Solar panels are generally mounted on flat roofs. However, if someone wants to use the roof space, it is possible to install solar panels on the superstructure. Superstructure generally costs around Rs 250 / square feet.

| Annual Electricity Generation: 1300 kWh / kW | |
|--|--|
| CO2 Savings: 0.8 kg / kWh | |
| Grid Electricity Tariff: Rs 6.70 / kWh | |
| Last Updated: 25/08/2021 | |

For Latest Updates Visit: https://www.aliensolar.com/hybrid-solar-power-plant



Orrand Technologies Private Limited

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