

BOQ

(06 KW SOLAR)

Sr.No	Description	Unit	Qty	Rate	Amount
1	Solar Panels Supply & Installation of Solar Panels (06 KW) as per the given technical specification with PV Module of minimum 600 watt. Junction Box: IP68 3 Diodes (complete with all respect) Linear Performance Guarantee: 25 Years Performance Warranty: 10 Years Brand Name: JINKO, LONGI, J SOLAR, CANADIAN or equivalent.	Each	1		
2	Solar Panel Structure MS Structure Powder Coated (Micron ≥90) Gauge 3mm all fasteners should be stainless steel (SS)	Each	1		
3	Inverter Supply & Installation of 06KW Solar Inverter IP-65 as per the given technical specification. Brand Name: INVEREX, SOLAX, GOODWE or equivalent Warranty: 05 Years	Each	1		
4	Batteries Supply & Installation of Lithium Batteries (5.0 KWH) as per the given technical specification (100 AH, 48 V). Brand Name: PYLONT TECH, DYNESS, INVEREX or equivalent Warranty: 03 Years	Each	1		
5	DB Panels As per required size and should have Gauge 16 Power Coated Breakers: ABB/Schneider /Terasaki/ Eaton or equivalent SPD: Double Pole AC & DC both each.	Each	1		
6	Power Cable & Accessories Power Cable (Pakistan Cable / Fast Cable or equivalent) 10mm for 10-20 meter distance & 16mm for 30-40 meter distance ducting GI Flexible Pipe for underground cable laying etc.	Job	1		
7	Transportation along with Testing & Commissioning of complete Solar Power System	Job	1		
8	P/M Earth system with 10' long ¾" dia copper bar as required complete with connections with 2 x 10 mmsq. bare flexible copper conductor or 2 x 8 SWG solid copper conductor in 1" dia PVC conduit (holes at every 1") up to permanent water table, terminated on ECPs, with suitable watering arrangement complete as per site requirement or equivalent method i.e. by excavation of dig of appropriate size, with copper plate (1-1/2' x 1-1/2' x 1/4"), earth material (salt, coal 15 Kg each & nitric acid 4 liter), appropriate size PVC conduit with tee etc. and Fixing of 02 Nos. Copper Equipotential bars made with 150 mm wide, 50 mm high, 5 mm thick Earth Connecting Points (ECP) respectively with holes for fixing of Copper Conductor.as directed by Engineer In charge.	Job	1		
Total					

(10 KW SOLAR)					
Sr.No	Description	Unit	Qty	Rate	Amount
1	<u>Solar Panels</u> Supply & Installation of Solar Panels (10 KW) as per the given technical specification with PV Module of minimum 600 watt. Junction Box: IP68 3 Diodes (complete with all respect) Linear Performance Guarantee: 25 Years Performance Warranty: 10 Years Brand Name: JINKO, LONGI, J SOLAR, CANADIAN or equivalent.	Each	3		
2	<u>Solar Panel Structure</u> MS Structure Powder Coated (Micron ≥90) Gauge 3mm all fasteners should be stainless steel (SS)	Each	3		
3	<u>Inverter</u> Supply & Installation of 10 KW Solar Inverter IP-65 as per the given technical specification. Brand Name: INVEREX, SOLAX, GOODWE or equivalent Warranty: 05 Years	Each	3		
4	<u>Batteries</u> Supply & Installation of Lithium Batteries (5.0 KWH) as per the given technical specification (100 AH, 48 V). Brand Name: PYLONT TECH, DYNESS, INVEREX or equivalent Warranty: 03 Years	Each	6		
5	<u>DB Panels</u> AS per required size and should have Gauge 16 Power Coated Breakers: ABB/Schneider /Terasaki/ Eaton or equivalent SPD: Double Pole AC & DC both each.	Each	3		
6	<u>Power Cable & Accessories</u> Power Cable (Pakistan Cable / Fast Cable or equivalent) 10mm for 10-20 meter distance & 16mm for 30-40 meter distance ducting GI Flexible Pipe for underground cable laying etc.	Job	3		
7	Transportation along with Testing & Commissioning of complete Solar Power System	Job	3		
8	P/M Earth system with 10' long ¾" dia copper bar as required complete with connections with 2 x 10 mmsq. bare flexible copper conductor or 2 x 8 SWG solid copper conductor in 1" dia PVC conduit (holes at every 1") up to permanent water table, terminated on ECPs, with suitable watering arrangement complete as per site requirement or equivalent method i.e. by excavation of dig of appropriate size, with copper plate (1-1/2' x 1-1/2' x 1/4"), earth material (salt, coal 15 Kg each & nitric acid 4 liter), appropriate size PVC conduit with tee etc. and Fixing of 02 Nos. Copper Equipotential bars made with 150 mm wide, 50 mm high, 5 mm thick Earth Connecting Points (ECP) respectively with holes for fixing of Copper Conductor.as directed by Engineer In charge.	Job	3		
<u>Total</u>					

(20 KW SOLAR)					
Sr.No	Description	Unit	Qty	Rate	Amount
1	<u>Solar Panels</u> Supply & Installation of Solar Panels (20 KW) as per the given technical specification with PV Module of minimum 600 watt. Junction Box: IP68 3 Diodes (complete with all respect) Linear Performance Guarantee: 25 Years Performance Warranty: 10 Years Brand Name: JINKO, LONGI, J SOLAR, CANADIAN or equivalent.	Each	3		
2	<u>Solar Panel Structure</u> MS Structure Powder Coated (Micron ≥90) Gauge 3mm all fasteners should be stainless steel (SS)	Each	3		
3	<u>Inverter</u> Supply & Installation of 20 KW Solar Inverter IP-65 as per the given technical specification. Brand Name: INVEREX, SOLAX, GOODWE or equivalent Warranty: 05 Years	Each	3		
4	<u>Batteries</u> Supply & Installation of Lithium Batteries (5.0 KWH) as per the given technical specification (100 AH, 48 V). Brand Name: PYLONT TECH, DYNESS, INVEREX or equivalent Warranty: 03 Years	Each	6		
5	<u>DB Panels</u> AS per required size and should have Gauge 16 Power Coated Breakers: ABB/Schneider /Terasaki/ Eaton or equivalent SPD: Double Pole AC & DC both each.	Each	3		
6	<u>Power Cable & Accessories</u> Power Cable (Pakistan Cable / Fast Cable or equivalent) 10mm for 10-20 meter distance & 16mm for 30-40 meter distance ducting GI Flexible Pipe for underground cable laying etc.	Job	3		
7	Transportation along with Testing & Commissioning of complete Solar Power System	Job	3		
8	P/M Earth system with 10' long ¾" dia copper bar as required complete with connections with 2 x 10 mmsq. bare flexible copper conductor or 2 x 8 SWG solid copper conductor in 1" dia PVC conduit (holes at every 1") up to permanent water table, terminated on ECPs, with suitable watering arrangement complete as per site requirement or equivalent method i.e. by excavation of dig of appropriate size, with copper plate (1-1/2' x 1-1/2' x 1/4"), earth material (salt, coal 15 Kg each & nitric acid 4 liter), appropriate size PVC conduit with tee etc. and Fixing of 02 Nos. Copper Equipotential bars made with 150 mm wide, 50 mm high, 5 mm thick Earth Connecting Points (ECP) respectively with holes for fixing of Copper Conductor.as directed by Engineer In charge.	Job	3		
<u>Total</u>					

(30 KW SOLAR)					
Sr.No	Description	Unit	Qty	Rate	Amount
1	<u>Solar Panels</u> Supply & Installation of Solar Panels (30 KW) as per the given technical specification with PV Module of minimum 600 watt. Junction Box: IP68 3 Diodes (complete with all respect) Linear Performance Guarantee: 25 Years Performance Warranty: 10 Years Brand Name: JINKO, LONGI, J SOLAR, CANADIAN or equivalent.	Each	1		
2	<u>Solar Panel Structure</u> MS Structure Powder Coated (Micron ≥90) Gauge 3mm all fasteners should be stainless steel (SS)	Each	1		
3	<u>Inverter</u> Supply & Installation of 30 KW Solar Inverter IP-65 as per the given technical specification. Brand Name: INVEREX, SOLAX, GOODWE or equivalent Warranty: 05 Years	Each	1		
4	<u>Batteries</u> Supply & Installation of Lithium Batteries (5.0 KWH) as per the given technical specification (100 AH, 48 V). Brand Name: PYLONT TECH, DYNESS, INVEREX or equivalent Warranty: 03 Years	Each	2		
5	<u>DB Panels</u> AS per required size and should have Gauge 16 Power Coated Breakers: ABB/Schneider /Terasaki/ Eaton or equivalent SPD: Double Pole AC & DC both each.	Each	1		
6	<u>Power Cable & Accessories</u> Power Cable (Pakistan Cable / Fast Cable or equivalent) 10mm for 10-20 meter distance & 16mm for 30-40 meter distance ducting GI Flexible Pipe for underground cable laying etc.	Job	1		
7	Transportation along with Testing & Commissioning of complete Solar Power System	Job	1		
8	P/M Earth system with 10' long ¾" dia copper bar as required complete with connections with 2 x 10 mmsq. bare flexible copper conductor or 2 x 8 SWG solid copper conductor in 1" dia PVC conduit (holes at every 1") up to permanent water table, terminated on ECPs, with suitable watering arrangement complete as per site requirement or equivalent method i.e. by excavation of dig of appropriate size, with copper plate (1-1/2' x 1-1/2' x 1/4"), earth material (salt, coal 15 Kg each & nitric acid 4 liter), appropriate size PVC conduit with tee etc. and Fixing of 02 Nos. Copper Equipotential bars made with 150 mm wide, 50 mm high, 5 mm thick Earth Connecting Points (ECP) respectively with holes for fixing of Copper Conductor.as directed by Engineer In charge.	Job	1		
<u>Total</u>					