

PRICE PROPOSAL FORM / BOQS (ANNEX-C)

SUMMARY OF OFFER				
LIST OF COMMUNITY/ PUBLIC FACILITIES TO BE SOLARISED - KHYBER PAKHTUNKHWA				
Sr. No.	Facility Name	Province	District	Total price (PKR)
1	BAR COUNCIL ALPURI SHANGLA	Khyber Pakhtunkhwa	Shangla	
2	BAR COUNCIL PURAN SHANGLA	Khyber Pakhtunkhwa	Shangla	
3	BAR COUNCIL CHOTA LAHORE SWABI	Khyber Pakhtunkhwa	Swabi	
4	BAR ASSOCIATION DAGAR BUNER	Khyber Pakhtunkhwa	Buner	
TOTAL COST (PKR)				

DATE:	
NAME AND TITLE:	
COMPANY NAME:	
ADDRESS:	
CONTACT #:	
EMAIL:	

SOLARIZATION OF BAR COUNCIL ALPURI SHANGLA, KHYBER PAKHTUNKHWA
GPS Coordinates: 34.919993, 72.633549

BILL OF QUANTITIES (BOQ)

Sr. No	Description				
1	PV System Capacity: 19850 W (550 W x 37)	TO BE PROVIDED BY UNHCR			
2	ON-GRID HYBRID INVERTERS: 20kVA (10 kVA x 2)				
3	Lithium Ion Battery*: 19.2 kWh (9.6 kWh x 2)				
4	PV Mounting Structure	Unit	Quantity	unit Price (PKR)	Total Price (PKR)
a	Hot dipped (80 microns Average) Galvanized steel of minimum thickness of 12 SWG / 2.64 mm Channel / Pipe or 8 SWG / 4.06 mm Angle	per Watt	19850		
5	Misc Items				
a	Single Core DC Flexible Copper Cables 6mm sq from PV module to DC combiner box	R.M	50		
b	Single Core DC Flexible Copper Cables 10mm sq from DC combiner box to Inverter	R.M	150		
c	Single Core DC Flexible Copper Cables 25mm sq for battery connections	R.M	10		
d	DC Breakers 32A-2P between DC combiner box and Inverter	No	3		
e	200 Amp/48V DC Breaker b/w inverter & battery bank	No	2		
f	AC Cables 10 mm sq (4 core) from Main Distribution Box (MDB) to inverter then back to MDB	R.M	90		
g	32 Amp 2-P AC Breaker btw WAPDA & Inverter	No	3		
h	32 Amp 2-P AC Breaker btw Inverter & Load	No	3		
i	Changeover Switches 32 Amp	No	3		
j	Surge Protection device both at AC and DC inputs	No	6		
k	Lightening Arrestor having 1" dia & 1m long rod with 5 spikes ball & base, Earthing Plate 1x1ft, 2 Earthing Rods 5 Feet Long 16 mm Dia, and Earthing Cable, all made of Copper material, and Earthing powder.	No	1		
l	Inauguration/Sign Board	No	1		
m	Civil foundation work, stainless steel nuts & bolts for PV structure, HDPE pipe, Flexible PVC pipe, PVC ducts etc for cable ducting, Copper thimbles, sleeves, Butt joint connectors, Ring thimbles, PVC shrouds, Heat shrink tubes for all termination, connection and jointing as per International practices. DC Combiner box. Dry chemical powder Fire Extinguisher 6Kg capacity complete in all respect. Inverter, Batteries and Protective Devices must be Labelled Properly along with detail user manual.	Job	1		
TOTAL AMOUNT (PKR)					
*Note: Two hours Back-Up system for Fans, Lights, and Computer only					

SOLARIZATION Of BAR COUNCIL PURAN SHANGLA, KHYBER PAKHTUNKHWA
GPS Coordinates: 34.738602, 72.682735

BILL OF QUANTITIES (BOQ)

Sr. No	Description	Unit	Qty	Unit Rate PKR	
1	PV System Capacity: 9156 W (550 W x 17)	TO BE PROVIDED BY UNHCR			
2	ON-GRID HYBRID INVERTERS: 10 kVA (5 kVA x 2)				
3	Lithium Ion Battery*: 9.6 kWh (4.8 kWh x 2)				
4	PV Mounting Structure	Unit	Quantity	unit Price (PKR)	Total Price (PKR)
a	Customized Elevated H-Beam Structure minimum 8 SWG with C-Channel for PV Panels Mounting as per Site Requirement.	per Watt	9156		
5	Misc Items				
a	Single Core DC Flexible Copper Cables 6mm sq from PV module to Inverter	R.M	100		
b	Single Core DC Flexible Copper Cables 25mm sq for battery connections	R.M	10		
c	DC Breakers 32A-2P between DC combiner box and Inverter	No	2		
d	200 Amp/48V DC Breaker b/w inverter & battery bank	No	1		
e	Supply and Erection single core PVC insulated copper conductor 250/440 V grade cable : 7/0.044" from Main Distribution Box (MDB) to inverter then back to MDB	R.M	80		
f	32 Amp 2-P AC Breaker btw WAPDA & Inverter	No	2		
g	32 Amp 2-P AC Breaker btw Inverter & Load	No	2		
h	Changeover Switches 32 Amp	No	2		
i	Surge Protection device both at AC and DC inputs	No	4		
j	Lightening Arrestor having 1" dia & 1m long rod with 5 spikes ball & base, Earthing Plate 1x1ft, 2 Earthing Rods 5 Feet Long 16 mm Dia, and Earthing Cable, all made of Copper material, and Earthing powder.	No	1		
k	Inauguration/Sign Board	No	1		
l	Civil foundation work, stainless steel nuts & bolts for PV structure, HDPE pipe, Flexible PVC pipe, PVC ducts etc for cable ducting, Copper thimbles, sleeves, Butt joint connectors, Ring thimbles, PVC shrouds, Heat shrink tubes for all termination, connection and jointing as per International practices. DC Combiner box. Dry chemical powder Fire Extinguisher 6Kg capacity complete in all respect. Inverter, Batteries and Protective Devices must be Labelled Properly along with detail user manual.	Job	1		
TOTAL AMOUNT (PKR)					
*Note: Two hours Back-Up system for Fans, Lights, and Computer only					

SOLARIZATION of BAR COUNCIL CHOTA LAHORE SWABI, KHYBER PAKHTUNKHWA
GPS Coordinates: 34.03185833, 72.36970

BILL OF QUANTITIES (BOQ)

Sr. No	Description	Unit	Qty	Unit Rate PKR	
1	PV System Capacity: 21413 W (550 W x 39)	TO BE PROVIDED BY UNHCR			
2	ON-GRID HYBRID INVERTERS: 20 kVA (10 kVA x 2)				
3	Lithium Ion Battery*: 19.2 kWh (9.6 kWh x 2)				
4	PV Mounting Structure	Unit	Quantity	unit Price (PKR)	Total Price (PKR)
a	Hot dipped (80 microns Average) Galvanized steel of minimum thickness of 12 SWG / 2.64 mm Channel / Pipe or 8 SWG / 4.06 mm Angle	per Watt	21413		
5	Misc Items				
a	Single Core DC Flexible Copper Cables 6mm sq from PV module to DC combiner box	R.M	50		
b	Single Core DC Flexible Copper Cables 10mm sq from DC combiner box to Inverter	R.M	150		
c	Single Core DC Flexible Copper Cables 25mm sq for battery connections	R.M	10		
d	DC Breakers 32A-2P between DC combiner box and Inverter	No	3		
e	200 Amp/48V DC Breaker b/w inverter & battery bank	No	2		
f	AC Cables 10 mm sq (4 core) from Main Distribution Box (MDB) to inverter then back to MDB	R.M	90		
g	32 Amp 2-P AC Breaker btw WAPDA & Inverter	No	3		
h	32 Amp 2-P AC Breaker btw Inverter & Load	No	3		
i	Changeover Switches 32 Amp	No	3		
j	Surge Protection device both at AC and DC inputs	No	6		
k	Lightening Arrestor having 1" dia & 1m long rod with 5 spikes ball & base, Earthing Plate 1x1ft, 2 Earthing Rods 5 Feet Long 16 mm Dia, and Earthing Cable, all made of Copper material, and Earthing powder.	No	1		
l	Inauguration/Sign Board	No	1		
m	Civil foundation work, stainless steel nuts & bolts for PV structure, HDPE pipe, Flexible PVC pipe, PVC ducts etc for cable ducting, Copper thimbles, sleeves, Butt joint connectors, Ring thimbles, PVC shrouds, Heat shrink tubes for all termination, connection and jointing as per International practices. DC Combiner box. Dry chemical powder Fire Extinguisher 6Kg capacity complete in all respect. Inverter, Batteries and Protective Devices must be Labelled Properly along with detail user manual.	Job	1		
TOTAL AMOUNT (PKR)					
*Note: Two hours Back-Up system for Fans, Lights, and Computer only					

SOLARIZATION OF BAR ASSOCIATION DAGAR BUNER, KHYBER PAKHTUNKHWA
GPS Coordinates: 34.50406667, 72.46224444

BILL OF QUANTITIES (BOQ)

Sr. No	Description	Unit	Qty	Unit Rate PKR	
1	PV System Capacity: 35347 W (550 W x 65)	TO BE PROVIDED BY UNHCR			
2	ON-GRID HYBRID INVERTERS: 30 kVA (10 kVA x 3)				
3	Lithium Ion Battery*: 19.2 kWh (9.6 kWh x 2)				
4	PV Mounting Structure	Unit	Quantity	unit Price (PKR)	Total Price (PKR)
a	Customized Elevated H-Beam Structure minimum 14 SWG with C-Channel for PV Panels Mounting as per Site Requirement.	per Watt	35347		
5	Misc Items				
a	Single Core DC Flexible Copper Cables 6mm sq from PV module to DC Connect box and from DC Connect Box to Inverter	R.M	300		
b	Single Core DC Flexible Copper Cables 25mm sq for battery connections	R.M	10		
c	DC Breakers 32A-2P between DC combiner box and Inverter	No	6		
d	200 Amp/48V DC Breaker b/w inverter & battery bank	No	2		
e	AC Cables 10 mm sq (4 core) from Main Distribution Box (MDB) to inverter then back to MDB	R.M	90		
f	32 Amp 4-P AC Breaker btw WAPDA & Inverter	No	3		
g	32 Amp 4-P AC Breaker btw Inverter & Load	No	3		
h	3-Phase Changeover Switches 32 Amp	No	3		
i	Surge Protection device both at AC and DC inputs	No	6		
j	Lightening Arrestor having 1" dia & 1m long rod with 5 spikes ball & base, Earthing Plate 1x1ft, 2 Earthing Rods 5 Feet Long 16 mm Dia, and Earthing Cable, all made of Copper material, and Earthing powder.	No	1		
k	Inauguration/Sign Board	No	1		
l	Civil foundation work, stainless steel nuts & bolts for PV structure, HDPE pipe, Flexible PVC pipe, PVC ducts etc for cable ducting, Copper thimbles, sleeves, Butt joint connectors, Ring thimbles, PVC shrouds, Heat shrink tubes for all termination, connection and jointing as per International practices. DC Combiner box. Dry chemical powder Fire Extinguisher 6Kg capacity complete in all respect. Inverter, Batteries and Protective Devices must be Labelled Properly along with detail user manual.	Job	1		
TOTAL AMOUNT (PKR)					
*Note: Two hours Back-Up system for Fans, Lights, and Computer only					