

	20 KW Solar System Estimate		Date	3/20/2024	valid	3/22/2024	
Product/Service Description	Specifications	Brand	Unit	Qty	Estimated Price		
Main Equipment , Materials							
PV Solar Panels	585 watt N type jinko/Canadian/JA		Panel	36		1053000	
Imported Solar Invertor	Knox,Growatt 10kw ,15kw PV		Nos	1		310000	
						1363000	
Solar Structure							
Gi Channel			Feet	432			
Aluminum Z Clumps				48			
Aluminum Mid Clumps				48			
GI Foot Clumps				48			
GI U clumps				72			
GI Bolts	8*20		mm	228			
GI Bolts	8*35		mm	48			
GI Bolts	8*75		mm	140			
GI Nuts		8	mm	368			
GI Washels				120			
Rawal Bolts				144			
Rawal Bolts				144			
Estinameted Total Cost						128428	
Electrical & Safety Equipment							
Protection Panel with Bolts (DB)	PVC 18 poles	Pak Made	Nos	2			
Protection Panel with Bolts (DB)	10*12	Pak Made	Nos	1			
Protection Panel with Bolts (DB)	PVC 8 Poles	Pak Made	Nos	1			
AC Circuit Breaker (External Disconnect	MCCB 100-A		Nos	1			
AC Circuit Breaker	63-VAC, 04-Pole	CNC	Nos	1			
AC Surge Protection Device (SPD)	40KA, 10KA, 400V	CNC	Nos	1			
DC Circuit Breaker	1000-VDC, 2-Pole	CNC	Nos	2			
DC Surge Protection Device (SPD)	1000-VDC, 2-Pole	CNC	Nos	3			
AC fuse holder with Fuses	1000 -VAC,25 AH	CNC	Nos	6			
Estinameted Total Cost						44500	
Cables & Conductors							
AC Cable for Disconnection Switch 4-Core	1000-VAC 10MM ³ Black	Pak Made	Meter	5			
AC Cable Roll (PVC/Cu/SC)	600 VAC 6MM2	Pak Made	Meter				
DC Cable Roll (SC/Flex/Cu/PVC/PVC) Black	1000-VAC 6MM	Pak Made	Meter	150			
DC Cable Roll (SC/Flex/Cu/PVC/PVC) Red	1000-VAC 6MM	Pak Made	Meter	100			
DC Cable Roll (SC/Flex/Cu/PVC/PVC)	600-VAC 2 5MM ³	Pak Made	Meter				
Estinameted Total Cost						66500	
Ausillary Items							
PVC Pipe (Class-E)	1" Diameter		Nos	14			
PVC Pipe Sockets (Class-E)	1" Diameter		Nos	16			
PVC Pipe Bends (Class-E)	1" Diameter		Nos	16			
Clamps for PVC Pipe	1" Diameter		Nos	50			
Duct	40x40 MM		Nos	2			
Lightning Arresters	Standard	Pak Made	Nos	1			
MC4 Solar Connector	Male . female	Slocable/Risen	Pairs	6			
Drywall Screws & Rawal Plugs	M10, 1.5-Inch	.	Nos	50			
Rawal Bolts	M10/M12	-	Nos				
Insulation Tape	Three Colours	Osaka	Nos	5			
Cable Zip Ties	150MM	Taiwan/China	Nos	1			
Flexible Pipe	PVC	Pak made	Meter	5			
Pipe Thimbles Red	6mm Red		Nos	30			
Pipe Thimbles Balck	6 mm Black		nos	30			
Estinameted Total Cost						17280	
Massionary. Digging. Construction, Grounding Works (Including Material & Contract)							
99.9% Copper Earthing wire	16MM	Pak Made	Kg	5			
Copper rod	35mm		kg	2			
Earthing Bags	Earthing Powder		Bag	4			
PVC High Density Pipe	1" Diameter		Nos	12			
Sockets	1" Diameter		Nos	12			
						23960	
Massionary. Digging. Construction, Grounding Works (Including Material & Contract)							
Plates Fabrication	Complete Plates Installation/Fabrication		Job	6			
Wiring and Cabling	Plates to inverter Cabeling/wiring in proper Pvc Conduites		Job	1			
Inverter/ Distribution installation			Job	1			
Earthing/Digging complete job	80 feet bores		Job	2			
						60000	
Estimated Total cost						1703668	

Net Metering Cost						
Net Metering File		File	1			
Sanction of Load	3kw to 5kw DN and Service fee	Job	1			
Green Meter DN		Job	1			
Wapda Service charges	Division,Subdivision,M&T	Job	1			
Silver wire	7/52 mm	meter	as per actual	120		
Meter installtion	Green Meter installation Fee	job	1			
Estimated Total Net Metering Cost				95000		