	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
mported Solar Invertor	Knox,Growatt 10kw ,15kw PV		Nos	1	310000
					1363000
olar Structure					
Gi Channel			Feet	432	
Aluminum Z Clumps				48	
Aluminum Mid Clumps				48	
GI Foot Clumps				48	
GI U clumps	0400			72	
GI Bolts	8*20		mm	228	
GI Bolts	8*35		mm	48	
GI Bolts	8*75		mm	140	
3I Nuts	8		mm	368	
GI Washels				120	
Rawal Bolts				144	
Rawal Bolts				144	
stinameted 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	
OC 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 10MM³ Black	Pak Made	Meter	5	
				5	
AC Cable Roll (PVC/Cu/SC)	600 VAC 6MM2	Pak Made	Meter	450	
OC Cable Roll (SC/Flex/Cu/PVC/PVC) Black	1000-VAC 6MM	Pak Made	Meter	150	
OC 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		6	
Orywall Screws & Rawal Plugs	M10, 1.5-Inch	Siccabic/Misell	Nos	50	
Rawal Bolts	M10/M12		Nos	30	
		- Osaka		5	
nsulation Tape	Three Colours		Nos		
	150MM	Taiwan/China	Nos	1	
·	D) (C		Meter	5	
Flexible Pipe	PVC	Pak made			
Flexible Pipe Pipe Thimbles Red	6mm Red	Pak made	Nos	30	
Flexible Pipe Pipe Thimbles Red		Pak made		30 30	
Cable Zip Ties Flexible Pipe Pipe Thimbles Red Pipe Thimbles Balck Estinameted Total Cost	6mm Red	Pak made	Nos		17280
Flexible Pipe Pipe Thimbles Red Pipe Thimbles Balck	6mm Red 6 mm Black Massionary. Digging. Construction, Grounding Work	ks (Including Ma	Nos nos	30 ct)	17280
Flexible Pipe Pipe Thimbles Red Pipe Thimbles Balck Estinameted Total Cost P9.9% Copper Earthing wire	6mm Red 6 mm Black Massionary. Digging. Construction, Grounding Work 16MM		Nos nos terial & Contrac	30 ct)	17280
Elexible Pipe Dipe Thimbles Red Dipe Thimbles Balck Estinameted Total Cost Dipe Searthing wire Copper Farthing wire	6mm Red 6 mm Black Massionary. Digging. Construction, Grounding Work 16MM 35mm	ks (Including Ma	Nos nos terial & Contrac Kg kg	30 ct) 5 2	17280
Elexible Pipe Pipe Thimbles Red Pipe Thimbles Balck Estinameted Total Cost P9.9% Copper Earthing wire Copper rod Earthing Bags	6mm Red 6 mm Black Massionary. Digging. Construction, Grounding Work 16MM	ks (Including Ma	Nos nos terial & Contrac	30 ct)	17280
Elexible Pipe Pipe Thimbles Red Pipe Thimbles Balck Estinameted Total Cost P9.9% Copper Earthing wire Copper rod Earthing Bags	6mm Red 6 mm Black Massionary. Digging. Construction, Grounding Work 16MM 35mm	ks (Including Ma	Nos nos terial & Contrac Kg kg	30 ct) 5 2	17280
Elexible Pipe Pipe Thimbles Red Pipe Thimbles Balck Estinameted Total Cost Pipe Scopper Earthing wire Copper rod Earthing Bags PVC High Density Pipe	6mm Red 6 mm Black Massionary. Digging. Construction, Grounding Work 16MM 35mm Earthing Powder	ks (Including Ma	Nos nos terial & Contrac Kg kg Bag	30 ct) 5 2 4	17280
Elexible Pipe Pipe Thimbles Red Pipe Thimbles Balck Estinameted Total Cost Pipe Scopper Earthing wire Copper rod Earthing Bags PVC High Density Pipe	6mm Red 6 mm Black Massionary. Digging. Construction, Grounding Work 16MM 35mm Earthing Powder 1" Diameter	ks (Including Ma	Nos nos terial & Contrac Kg kg Bag Nos	30 5 2 4 12	
Elexible Pipe Pipe Thimbles Red Pipe Thimbles Balck Estinameted Total Cost Pipe Scopper Earthing wire Copper rod Earthing Bags PVC High Density Pipe	6mm Red 6 mm Black Massionary. Digging. Construction, Grounding Work 16MM 35mm Earthing Powder 1" Diameter 1" Diameter	ks (Including Ma Pak Made	Nos nos terial & Contrac Kg kg Bag Nos Nos	30 5 2 4 12 12	17280
Flexible Pipe Pipe Thimbles Red Pipe Thimbles Balck Estinameted Total Cost P9.9% Copper Earthing wire Copper rod Earthing Bags PVC High Density Pipe Sockets	6mm Red 6 mm Black Massionary. Digging. Construction, Grounding Work 16MM 35mm Earthing Powder 1" Diameter 1" Diameter Massionary. Digging. Construction, Grounding Work	ks (Including Ma Pak Made	Nos nos terial & Contrac Kg kg Bag Nos Nos	30 5 2 4 12 12	
Elexible Pipe Pipe Thimbles Red Pipe Thimbles Balck Estinameted Total Cost Pipe Sockets Plates Fabrication	6mm Red 6 mm Black Massionary. Digging. Construction, Grounding Work 16MM 35mm Earthing Powder 1" Diameter 1" Diameter Massionary. Digging. Construction, Grounding Work Complete Plates Installation/Fabrication	ks (Including Ma Pak Made	Nos nos terial & Contrac Kg kg Bag Nos Nos terial & Contrac Job	30 5 2 4 12 12	
Elexible Pipe Pipe Thimbles Red Pipe Thimbles Red Pipe Thimbles Balck Estinameted Total Cost Pipe Sockets Plates Fabrication Wiring and Cabling	6mm Red 6 mm Black Massionary. Digging. Construction, Grounding Work 16MM 35mm Earthing Powder 1" Diameter 1" Diameter Massionary. Digging. Construction, Grounding Work	ks (Including Ma Pak Made	Nos nos terial & Contrac Kg kg Bag Nos Nos Vos	30 5 2 4 12 12 12	
Elexible Pipe Pipe Thimbles Red Pipe Thimbles Balck Estinameted Total Cost Pipe Sockets Plates Fabrication Wiring and Cabling Inverter/ Distribution installation	6mm Red 6 mm Black Massionary. Digging. Construction, Grounding Work 16MM 35mm Earthing Powder 1" Diameter 1" Diameter Massionary. Digging. Construction, Grounding Work Complete Plates Installation/Fabrication Plates to inverter Cabeling/wiring in proper Pvc Cor	ks (Including Ma Pak Made	Nos nos terial & Contrac Kg kg Bag Nos Nos Job Job	30 5 2 4 12 12 12 11	
lexible Pipe ipe Thimbles Red ipe Thimbles Balck stinameted Total Cost 9.9% Copper Earthing wire opper rod arthing Bags VC High Density Pipe ockets lates Fabrication Viring and Cabling	6mm Red 6 mm Black Massionary. Digging. Construction, Grounding Work 16MM 35mm Earthing Powder 1" Diameter 1" Diameter Massionary. Digging. Construction, Grounding Work Complete Plates Installation/Fabrication	ks (Including Ma Pak Made	Nos nos terial & Contrac Kg kg Bag Nos Nos Vos	30 5 2 4 12 12 12	
lexible Pipe ipe Thimbles Red ipe Thimbles Balck stinameted Total Cost 9.9% Copper Earthing wire opper rod arthing Bags VC High Density Pipe ockets lates Fabrication Viring and Cabling overter/ Distribution installation	6mm Red 6 mm Black Massionary. Digging. Construction, Grounding Work 16MM 35mm Earthing Powder 1" Diameter 1" Diameter Massionary. Digging. Construction, Grounding Work Complete Plates Installation/Fabrication Plates to inverter Cabeling/wiring in proper Pvc Cor	ks (Including Ma Pak Made	Nos nos terial & Contrac Kg kg Bag Nos Nos Job Job	30 5 2 4 12 12 12 11	

	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		
stimated Total Net Metering Cost				95000	