BoQ for Supply, Delivery and Offloading of Electrical and Mechanical Consumables for Microgrids/Solar PV project on an as and when required basis for a duration of 5 years.

Summary

	Amount
Contract Amount	
Total	

BoQ for Supply, Delivery and Offloading of Electrical and Mechanical Consumables for Microgrids/Solar PV project on an as and when required basis for a duration of 5 years.

	Item Description	Unit	Quantity	Unit Rate (ZAR)	Total (ZAR)
1	**DB Enclosure's**				
1.1	Enclosure Steel 400mmx400mmx200mm with backplate and all backets and mounting accessories	sets	200.00		
1.2	Enclosure Steel 500mmx500mmx250mm with backplate and all backets and mounting accessories	sets	200.00		
1.3	Enclosure Steel 600mmx600mmx300mm with backplate and all backets and mounting accessories	sets	200.00		
1.4	Enclosure Steel 800mmx800mmx320mm with backplate and all backets and mounting accessories	sets	100.00		
1.5	Enclosure Steel 1000mmx1000mmx300mm with backplate and all backets and mounting accessories	sets	100.00		
1.6	Enclosure Steel 1200mmx1000mmx300mm with backplate and all backets and mounting accessories	sets	100.00		
1.7	PVC Enclosure 26-Ways with Dinrail	sets	100.00		
1.8	3m Din rail	Each	200.00		
2	**Changeover Switch**				
2.1	Changeover Switch 150A AUTO	Each	100.00		
2.2	Changeover Switch 250A AUTO	Each	200.00		
2.3	Changeover Switch 300A AUTO	Each	50.00		
2.4	Changeover Switch 500A AUTO	Each	50.00		
2.5	Changeover Switch 600A AUTO	Each	10.00		
2.6	Changeover Switch 700A AUTO	Each	10.00		
3	**DC Circuit Breakers**				
3.1	20A 2P Isolator (1000 Vdc)	Each	1 500.00		
3.2	20A 2P Circuit Breaker (1000 Vdc)	Each	1 500.00		
3.3	20A 2P Fuse holder (1000 Vdc)	Each	3 000.00		
3.4	2P DC SURGE ARRESTER (1000 Vdc)	Each	1 500.00		
3.5	160A 2P Fuse holder	Each	150.00		
3.6	250A 2P Fuse holder	Each	150.00		
3.7	160A DC Fuse	Each	300.00		
3.8	250A DC Fuse	Each	300.00		
4	**AC Circuit Breakers**				
4.1	20A 2P Circuit Breaker	Each	100.00		
4.2	30mA Earth Leakage CB	Each	50.00		
4.3	10A 1P Circuit Breaker	Each	50.00		
4.4	20A 1P Circuit Breaker	Each	50.00		
4.5	30A 2P Circuit Breaker	Each	400.00		
4.6	40A 3P Circuit Breaker	Each	200.00		
4.7	70A 3P Circuit Breaker	Each	600.00		
4.8	100A 3P Circuit Breaker	Each	400.00		
4.9	125A 3P Circuit Breaker	Each	400.00		
4.10	150A 3P Circuit Breaker	Each	300.00		
4.11	200A 3P Circuit Breaker	Each	400.00		
4.12	250A 3P Circuit Breaker	Each	400.00		
4.13	300A 3P Circuit Breaker	Each	100.00		
4.14	400A 3P Circuit Breaker	Each	100.00		
4.15	500A 3P Circuit Breaker	Each	70.00		
4.16	600A 3P Circuit Breaker	Each	50.00		
5	**Cables**				
5.1	2.5mm² suffix cable	Meter	6 000.00		
5.2	4mm² suffix cable	Meter	4 000.00		
5.3	6mm² surfix cable	Meter	1 000.00		
5.4	6mm² solar cable (Black/Red)	Meter	100 000.00		
5.5	10mm cable - red/black	Meter	6 000.00		
5.6	10mm² solar cable (Black/Red)	Meter	5 000.00		
5.7	35mm² Black flexible cable (Black/Red/Blue/White)	Meter	2 500.00		
5.8	50mm² flexible cable (Black/Red/Blue/White)	Meter	2 000.00		
5.9	70mm² Black flexible cable (Black/Red/Blue/White)	Meter	2 000.00		

5.10	95mm² (High load) Black flexible cable (Black/Red/Blue/White)	Meter	500.00		
5.11	Earth Cable 16mm² Green/Yellow	Meter	3 000.00		
5.13	Glands No 0	Each	500.00		
5.14	Glands No 1	Each	500.00		
5.15	Glands No 2	Each	500.00		
5.16	Glands No 3	Each	500.00		
5.17	Glands No 4	Each	500.00		
5.18	Glands No 5	Each	500.00		
5.19	Cat6 Cable	drum (500m)	10.00		
5.20	Flexible Conduit (UV-resistant)	Meter	10 000.00		
6	**Air conditioning**				
6.1	12000 btu inverter airconditioner	Each	150.00		
6.2	18000 btu inverter airconditioner	Each	100.00		
7	**Trunking**				
7.1	75 x 75mm trunking	Per/3 Meter	50.00		
7.2	100 x 100mm trunking	Meter	2 000.00		
7.3	16 x 25mm trunking	each	2 000.00		
7.4	100mm cable basket - cable tray 3m	Each	800.00		
7.5	150mm cable basket - cable tray 3m	Each	300.00		
8	**Containers**				
8.1	6m Container (Painted blue outside, Grey inside) - C-Grade	Each	120.00		
8.2	12m Container (Painted blue outside, Grey inside) - C-Grade	Each	40.00		
8.3	Transport of the container to various sites including loading and off-loading	per/km	20 000.00		
9	**Protection and Monitoring**				
9.1	Danger Labels (High Voltage)	Each	200.00		
9.2	Complete Fire Suppression System for Container	Each	300.00		
9.3	Monitoring Module (RS485 / Modbus / WiFi / Ethernet)	Each	200.00		
9.4	Presence sensor	Each	200.00		
9.5	Battery Room Temperature Sensor	Each	200.00		
9.6	Remote Monitoring System (Cloud-based)	Each	200.00		
9.7	IP Camera	Each	500.00		
9.8	Energy Meter - CT Based (Bi-directional)	Each	200.00		
9.9	Laptop - Ryzen 5 for Monitoring	each	200.00		
9.10	Fuse Holder and Fuses	each	200.00		
9.11	Wireless keyboard	each	200.00		
9.12	Wireless mouse	each	200.00		
9.13	PV Module Mounting Structure (adjustable, roof/ground)	Lot	200.00		
9.14	Alarm 8 Channel	Each	200.00		
9.15	Blaze Cut Fire Suppression System - Economy	each	10.00		
9.16	PLC/Automation Controller (optional SCADA)	Each	10.00		
9.17	CT Coil Set (100A - 500A) - one set (3CTs) per DB and 3CTs per phase	Set	100.00		
9.18	PV Fuse Holder + Fuse 1000VDC	Each	200.00		
9.19	System Schematic Drawing (A3 Laminated)	Each	200.00		
9.20	Warning Tape - Electrical	Roll (meter)	50.00		
9.21	24 LCD monitor	Each	20.00		
9.22	Residual Current Device (RCD) - 4P 63A 30mA	Each	200.00		
9.23	Optex sensor	Each	200.00		
9.24	2 pole battery fuse holder with indicator	each	800.00		
10	**Tool kit**				
10.1	Lightning Protection Kit	Each	200.00		
10.2	Signage Kit (Hazard, SLD, warning)	Lot	200.00		
10.3	Weather Sensor Kit (irradiance + temp)	Each	200.00		
10.4	PV System Labelling Kit (SANS compliant)	Lot	1.00		
10.5	Tool Kit for PV & Battery Maintenance	Set	1.00		
10.6	Earthing Kit (Copper rod, clamp, etc.)	Each	200.00		
10.7	Adjustable Tilt Frames (per string)	sets	200.00		
10.8	Cleaning Kit for Solar Panels	Set	50.00		
10.9	Commissioning Toolkit (test + logbook)	Lot	200.00		
10.10	PPE Kit (Gloves, Arc Shield, Earthing stick)	Set	10.00		
10.11	Maintenance Logbook and Checklist Set	Set	10.00		
11	**Communication**				
11.1	Industrial-grade Fire Alarm Panel	Each	200.00		

11.2	IP communicator optex it must be wired	Each	200.00		
11.3	Transmitter	Each	200.00		
11.4	Siren	Each	200.00		
11.5	Transciever	Each	200.00		
11.6	8 Channel NVR	Each	200.00		
11.7	MikroTik RB-LHG LTE 17dBi Outdoor CPE (antena)	Each	200.00		
11.8	2TB HDD	Each	200.00		
12	**Electrical Accessories**				
12.1	MC4 connectors	pair	3 000.00		
12.2	MC4 Y connector	pair	3 000.00		
12.3	20mm sprague pipe roll	Meter	400.00		
12.4	20mm male adaptor	each	10 000.00		
12.5	300 Amp solid bus bar	Meter	400.00		
12.6	4 x 4 plug socket 16amps	Each	400.00		
12.7	Insulation tape rolls	Roll (meter)	400.00		
12.8	Neutral busbar 500mm x 200mm	Each	800.00		
13	**Transportation for Material Deliveries**				
13.1	Transportation	Rate/Km	100 000.00		
			Sub total		
			Vat @ 15%		
			Total		

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RG Weyers
2026/10/15
Snr. QS