Location	Part Number	Name Part	Link P	rice incl. VAT	QTY	Description	Price
			Solar charging circuit				
Communica	LM317T	LM317T	https://www.communica.co.za/prc R			5 Voltage Regulator Module Using LM317T	49,75
Communica	1N4007F	Rectifier Diode	https://www.communica.co.za/prc R	0.44		2 General Purpose Rectifier Diode • DO-41 • Axial • V	F @ 0,88
Communica	BZX85C12V	Zener diode	https://www.communica.co.za/prc R	1.32		2 Leaded Zener Diode • DO-41 • Axial • Ptot= 1.3W • V	/Z12,64
Communica	HKD 100X5MM ASSTD LEDS-5 COLO	ORS Multicolour Led	https://www.communica.co.za/prc R			1 5mm High Bright LED Kit. 20 of each- Red, Green, Bl	lue 50.00
Communica	CFR25J-220R	220 ohm resistor	https://www.communica.co.za/prc Ri			2 Carbon Film Resistor • ¼W • 220Ω • ±5% • Axial, Siz	•
Communica	CF 1/4W 5% 2K	2k ohm resistor	https://www.communica.co.za/prc R			2 Carbon Film Resistor • ¼W • 2kΩ • ±5% • Axial, Size	2.0.14
Communica	KNP5WS 10R 5%	10 ohm resistor	https://www.communica.co.za/prc R			2 Wire Wound KNP Resistor • 5W • 10Ω • ±5% • Axial,	-,
Communica	CT6P10K	10k potentiomer	https://www.communica.co.za/prc R			3 Single turn Cermet Trimmer Potentiometer, Model :	
communica	HKD S/S	veroboard	https://www.communica.co.za/prc R			2 HKD S/S PROTOBOARD 8X12CM	34,00
			Battery Level Indicato	r			
Communica	BZX83C2V4	Zener diode	https://www.communica.co.za/prc R			2 Leaded Zener Diode • DO-35 • Axial • Ptot= 0.5W • V	/7] 1 16
Communica	BZX83C4V7	Zener diode	https://www.communica.co.za/prc R			2 Leaded Zener Diode • DO-35 • Axial • Ptot= 0.5W • V	, .
Communica	BZX83C9V1	Zener diode Zener diode	https://www.communica.co.za/prc R			2 Leaded Zener Diode • DO-35 • Axial • Ptot= 0.5W • V	, .
Communica	MFR25F-100R	Resistor	https://www.communica.co.za/prc R			5 Metal Film Resistor • ¼W • 100Ω • ±1% • Axial, Size	-,
Communica	MFR25F-100K	nesistoi	Reverve Polarity	0.40		5 Metat Pitti Resistor • 74VV • 10012 • ±170 • Axiat, Size	2. 2,00
			-				
Mantech	MF50-100K-F T/B *DBK*	Resistor	https://www.mantech.co.za/Produ R			2 RESISTOR, AXIAL LEADED, METAL FILM, 1/2W (0.5V	,
Communica	BZX83C9V1	Zener diode	https://www.communica.co.za/prc			2 Leaded Zener Diode • DO-35 • Axial • Ptot= 0.5W • V	,
Mantech	IRF9540NPBF	P-Mosfet	https://www.mantech.co.za/Produ Ri	20.61		2 MOSFET P-C TO220 100V 23A 0E120	41,22
Communica	BZX83C9V1	Zener diode	https://www.communica.co.za/ R	0.58		2 Leaded Zener Diode • DO-35 • Axial • Ptot= 0.5W • V	/Z] 1,16
Mantech	IRFZ44NPBF	Mosfet	https://www.mantech.co.za/PrcR	10.62		2 MOSFET N-C TO220AB 55V 49A 0E017	21,24
Communica	NE555	555 timer	https://www.mantech.co.za/PrcR	2.52		2 555 TIMER CIRCUIT DIP	5,04
Mantech	EC0410-121K	Inductor	https://www.mantech.co.za/Produ R	2.04		2 WIREWOUND AXIAL INDUCTOR 120uH 0.60A	4,08
Mantech	47UF 63VR WLR	Capacitor	https://www.mantech.co.za/Produ R			2 Capacitor	2,18
Communica	1NF 100VP5	1nF capacitor 50V	https://www.communica.co.za/prc R			2 Polyester Film Capacitor Boxed • Lead Space: 5mm	. • ∣6.1
communica	MFR12F-10K	10k resistor	https://www.communica.co.za/prc R			6 Metal Film Resistor • 1/8W • 10kΩ • ±1% • Axi	ial 2.1
Communica	1N4148	1N4148	https://www.mantech.co.za/Produ R			2 HIGH SPEED SIGNAL AXIAL DIODE DO35 100V 10/N	10 20.00
communica	CFR25J-100R	100R resistor	https://www.communica.co.za/prc R			2 arbon Film Resistor • ¼W • 100Ω • ±5% • Axia	,
communica	MFR12F-47K	47K resistor	https://www.communica.co.za/prc Ri			2 Metal Film Resistor • 1/8W • 47kΩ	0,7
communica	220UF 25VR	220uF 50V resistor	https://www.communica.co.za/prc R			Mini General Purpose Electrolytic Capacitor	2,42
oonmanied .	22001 23411	22001 300 10313101	Battery	1.21		2 Willia Geriera i arpose Electrolytic Capacitor	2,72
Takealot	2.7\/ Pachargashla hattani	3.7V rechargeable lithium ion batton	<u>-</u>	120.00		1	120,00
	3.7V Rechargeable battery	<ol><li>3.7V rechargeable lithium ion battery battery holder</li></ol>				_	
<u>communica</u>	HKD LC18650X2 BATT HOLDER	•	https://www.communica.co.za/prc R		20	1 2X18650 Battery Holder with Wire Leads	11,99
<u>Takealot</u>	Solar panel	Solar panel	https://www.takealot.com/portable	22	29	1 Solar panel	229,00
POWER TOTAL			Comono and Complete C. 1				650,03
oommunioo	DUT44	Temperature and Humidity Medule	Camera and Sensing Subsy			2. Tomporature and Humidity Madula	00
communica	DHT11	Temperature and Humidity Module	https://www.communica.co.za/prc R	40.00		2 Temperature and Humidity Module	80
DigiKey South Africa	2648-SC0020-ND	RASPBERRY PI ZERO W	https://www.digikey.co.za/en/prod R2	283,50		1 RASPBERRY PI ZERO W	283.5

DigiKey South Africa	FIT0701	USB camera for Rpi	https://www.digikey.co.za/en/prod R187,11	1 USB camera module for Rasperry Pi	187.11
PiShop MicroRobotics Bob shop	SC0024 HC-SR501 DS3231	NoIR camera for Rpi PIR sensor RTC	https://www.pishop.co.za/store/ra R316.90 https://www.robotics.org.za/HC-SI R27.60 https://www.bobshop.co.za/ds323 R30	1 raspberry pi pinoir camera module v2.1 2 PIR sensor 1 DS3231 Real Time Clock (RTC) for F	316.9 55.2 35
CAMERA/SENSING TOTAL					957.71

300

1907.74

FIT0701

CASING TOTAL

TOTAL TOTAL