**QUOTE 1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S/N** | **DESCRIPTION** | **QTY** | **RATE** | **AMOUNT** |
| 1 | FORCE PUMP 2HP 110V DC XQFLEX | 2 | 560,000 | 1,120,000 |
| 2 | BATTERY 220 AH/12V | 20 | 90,000 | 1,800,000 |
| 3 | SOLAR CC 80AMP MPPT | 2 | 150,000 | 300,000 |
| 4 | SOLAR PANEL 250W | 20 | 40,000 | 800,000 |
| 5 | BATTERY RACK |  |  | 60,000 |
| 6 | PANEL RACK |  |  | 100,000 |
| 7 | CIRCUIT BREAKER 60AMPS | 2 | 3,000 | 6,000 |
| 8 | CABLE 10MM(TWIN) | 70 | 550 | 38,500 |
| 9 | ACCESSORIES |  |  |  |
| 10 | INSTALLATION |  |  | 100,000 |

**TOTAL: 4,324,500**

**QUOTE 2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S/N** | **DESCRIPTION** | **QTY** | **RATE** | **AMOUNT** |
| 1 | 5 KVA INVERTER | 2PCS | 350,000 | 700,000 |
| 2 | 12 VOLT 200 AMPS HR BATTERIES | 16PCS | 120,000 | 1,920,000 |
| 3 | 24 VOLT 200 WATT PANELS | 40PCS | 65,000 | 2,600,000 |
| 4 | 48 VOLT 60AMPS REGULATORS | 4PCS | 65,000 | 260,000 |
| 5 | SURGE PROTECTOR |  |  | 85,000 |
| 6 | WIRING, FUSE, CUT OUTS ETC |  |  | 180,000 |
| 7 | PANEL STANCHION |  |  | 450,000 |
| 8 | BATTERIES CAGES |  |  | 220,000 |
| 9 | LABOUR FOR INSTALLATION |  |  | 250,000 |
| 10 | TRANSPORTATION |  |  | 150,000 |

**TOTAL: 6,815,000**

**COMPARING THEM**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **QUOTE 1** | | **QUOTE 2** | |
| **S/N** | **DESCRIPTION** | **AMOUNT** | **DESCRIPTION** | **AMOUNT** |
| 1 | FORCE PUMP 2HP 110V DC XQFLEX | 1,120,000 | 5 KVA INVERTER | 700,000 |
| 2 | BATTERY 220 AH/12V | 1,800,000 | 12 VOLT 200AMPS HR BATTERIES | 1,920,000 |
| 3 | SOLAR PANEL 250W | 800,000 | 24 VOLT 200 WATT PANELS | 2,600,000 |
| 4 | SOLAR CC 80AMP MPPT | 300,000 | 48 VOLT 60AMPS REGULATORS | 260,000 |
| 5 | CIRCUIT BREAKER 60AMPS | 6,000 | SURGE PROTECTOR | 85,000 |
| 6 | CABLE 10MM(TWIN) | 38,500 | WIRING, FUSE, CUT OUTS ETC | 180,000 |
| 7 | PANEL RACK | 100,000 | PANEL STANCHION | 450,000 |
| 8 | BATTERY RACK | 60,000 | BATTERIES CAGES | 220,000 |
| 9 | LABOUR FOR INSTALLATION | 100,000 | LABOUR FOR INSTALLATION | 250,000 |
| 10 | ACCESSORIES |  | TRANSPORTATION | 150,000 |
| **TOTAL: N4,324,500** | | | **TOTAL: N6,815,000** | |

**MY ASSUMPTION:**

**QUOTE 1:**

**Wants to use, a solar inverter, (a solar water pump inverter). This kind of inverter(from my research/what I suspect) job is to connect to batteries but it is designed for water pumps, so it has both the inverter and pump together. It uses DC (that is, get power from batteries). It will accept power from batteries but it is a pump. They also want to use solar panels to charge the batteries.**

**While,**

**QUOTE 2:**

**Wants to use a regular inverter, provide two 5 KVA, and connect batteries and panels to it, this can also be used when there is no electricity(NEPA), to power the water pump. I don’t really know but It might run for some hours and stop when batteries die, and pumping will stop.**

**So, Quote 1 price seems better, and also, they want to use a DC pump, more like the inverter is kind of built into the pump, so when it is connected to the batteries they mentioned above, the batteries provide the DC power to it and then it pumps the water.**