RIAL BAAI

"Bringing Light to the Community"

Solar Sizing Calculation

Customer Name: **Date:**

Location: **Analyst:**

Customer Phone Number:

Description of the Loads Used Daily	Continuous Power (W) per Unit	Quantity	Running Power (W) together	Operating Time (hrs/day)	Energy Consumption (Wh/day)
Additional Motor Starting Power					

Total AC Load for Inverter Size (W) *Round Up to nearest size* Inverter Size (W)

Total Energy Consumption per Day(Wh) *Divide by 6h of sun per day* Solar Size (W)

Energy Storage Needed *Divide by 12V (voltage of battery used)* Battery Size (Ah)

Other Items Needed:

NOTES:

Examples of Load Power Consumption			
Cell Phone	10 W	Fan - Small	*80* W
Laptop computer	70 W	Fan - Medium	150 W
TV - 14"	70 W	Fan - Large	230 W
TV - 28"	150 W	CF Light Small	40 W
TV - 32"	200 W	CF Light Medium	65 W
Refrigerator 50-60 liter	100 W	CF Light Large	115 W
Refrigeratror ~150 liter	200 W	AC - small	1000 W
Refrigerator ~ 500 liter	500 W	AC - large	5000 W