

TIPS TO DECIDE

Category Name: Solar Panel

<u>Basic Purpose:</u> To reduce power consumption from the grid/Diesel generator and use renewable energy. Going green by installing Solar Panel.	
<u>Points to remember while purchase</u> a. Check expected panel efficiency? (Note: general efficiency of panel is 60-80%. Can go up by 10% if MPPT controllers are used) b. No. of units of power that will be generated in a day. (Note: For each region there is a thumb rule of power generation. Ex TN avg will be 3-4 units/day.) This is a good test of vendor knowledge c. Shelf Life or warranty in general for solar panels are 20 years and the components are 5 years.	<u>General Price Range:</u> Generally per Kilowatt (KW) the rate is 65K-1Lakh. Note: This is a stable system so not much AMC involved, unless under special circumstance.
<u>Caution:</u> 1) If the price is negotiated harder, lower watt panel is provided. 2) The controllers do not have display units for viewing of total power consumed. 3)Vendors might recommend DC motors for Solar pumps. 4) A trained system integrator is required from the institution in case of any emergency.	<u>Areas Of Application:</u> 1) Roof top installation for regular grid connection. 2) Usage wise it can be across the campus for any electrical equipments
	<u>Certifications involved:</u> 1) ISC, TUV, UL ,IEC, MNRE certificate