

ABSTRACT

The use of cooling is an attracting considerable attention in various industrial applications. The effects of different on the cooling rate and hence the efficiency of solar systems can be experimentally investigated. The various solar energy technologies exist and they have different application techniques in the generation of electrical power. The widespread use of photovoltaic (PV) modules in such technologies has been relatively high costs and low efficiencies. The efficiency of PV panel decreases as the operating temperature increases. This is due to reflection from the top surface, absorption of heat by the parts other than the cell, absorption of heat from the other portion of the spectrum. For that the temperature should be maintained in prescribed limit. In this work, copper coiled tube heat exchanger passive water cooling system has to be design & fabricate for maintain the optimum temperature of solar panel.