

1) Solar Constant  $^{\circ}$  :- the average rate at which radiant energy is received from the sun by the earth equal to 1.94 Small, Calories per minute per square centimeter. of area perpendicular to the sun's ray measured at a point outside the earth's atmosphere

2) Hour Angle  $^{\circ}$  :- Hour angle is defined as the angle of the sun from the local meridian measured along the celestial equator in the westerly direction. As the earth rotates this angle increases by 15 degrees every hour

3) Zenith Angle  $^{\circ}$  - The Zenith angle is the angle between the sun and vertical, the Zenith angle is similar to the elevation angle but it is measured from the vertical rather than from.  $\text{Zenith Angle} = 90^{\circ} - \text{elevation}$

4) Global Radiation  $^{\circ}$   $\rightarrow$  Global radiation is the total short wave radiation from the sky falling on to a horizontal surface on the ground. It include both direct radiation and