

Section-5

Q Define net head of turbine & Explain hydraulic efficiency of turbine?

Ans The net head is defined as the gross head minus all pipe losses due to friction and turbulence and is used to calculate the available power capacity of water resource to determine the net head the site's gross head must be measured and pipe losses calculate.

Hydraulic efficiency of turbine

Hydraulic efficiency is defined as ratio between power given by water to runner of turbine and to the power supplied by water at inlet of the turbine its maximum value is obtained by replacing

$$\text{and it is } \boxed{U = \frac{V}{2}}$$

$(1 + \cos K) / 2$ where K is outlet blade angle.