

## **Assignment**

From a water fall, water is falling at the rate of 100 kg/s on the blades of turbine. If the height of the fall is 100m. What will be the power delivered to the turbine?

Ans) Given,

Rate of water fall,  $\dot{m} = 100 \text{ kgs}^{-1}$

Height of fall,  $h = 100 \text{ m}$

Energy on blade = potential energy of water fall

$$E = \dot{m}gh = 100 \times 10 \times 100 = 100 \text{ kW}$$

Hence, energy is 100 kW