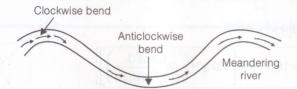
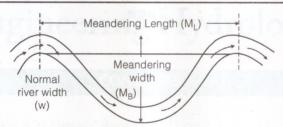
## **MEANDERS**

If a river deviates from its axial path and a curvature of reverse order is developed with short straight reaches, the river is stated to be a meandering river.



## **MEANDER PARAMETER**



(i) Meander Ratio, (MR)

$$MR = \frac{M_B}{M_L}$$
 where,  $M_B = Meander Belt$   $M_L = Meander Length.$ 

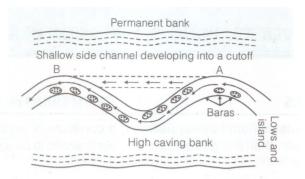
(ii) Dominant Discharge

$$Q_{dominant} = \frac{1}{2} \text{ or } \frac{2}{3} \text{ of } Q_{max} = \frac{9}{16} \cdot Q_{max} \text{ (generally)}$$

(iii) Meander Length for Rivers in Flood Plains

$$M_L = 65.8\sqrt{Q_{dominant}}$$

(iv) Cut – off ratio = 
$$\frac{ACB}{AB}$$
  $1.7 \le C.O.R \le 3.0$ 



## (v) Angle of Swing

$$\theta = 180^{\circ} + 2 \left[ \text{vers}^{-1} \left( \frac{\text{Chord}}{2 \times \text{Radius}} \right) \right]$$

