

### 2.3 Slow Mixing (Flocculation)

To Provides slow mixing to allow “destabilized” particles and precipitates to grow in size

*Slow Mixing Properties:*

- Too much mixing can cause floc break-up
- Detention time of 20 to 50 minutes, typical 30 minutes
- The flocculation basin should be divided into at least three compartments.
- Flow through velocities should be not less than 0.15 m/s nor greater than 0.45 m/s.
- Water depths in the basin range from 3 to 5 m.
- G range (20 -80) s<sup>-1</sup>.

