

# L. D. COLLEGE OF ENGINEERING, AHMEDABAD (GTU)

7<sup>th</sup> Semester Civil Engineering - PDDC 2013 Batch

**Subject Code & Name :** X70601 - Design of Hydraulic Structures

## Assignment - 3 (Embankment dam engineering)

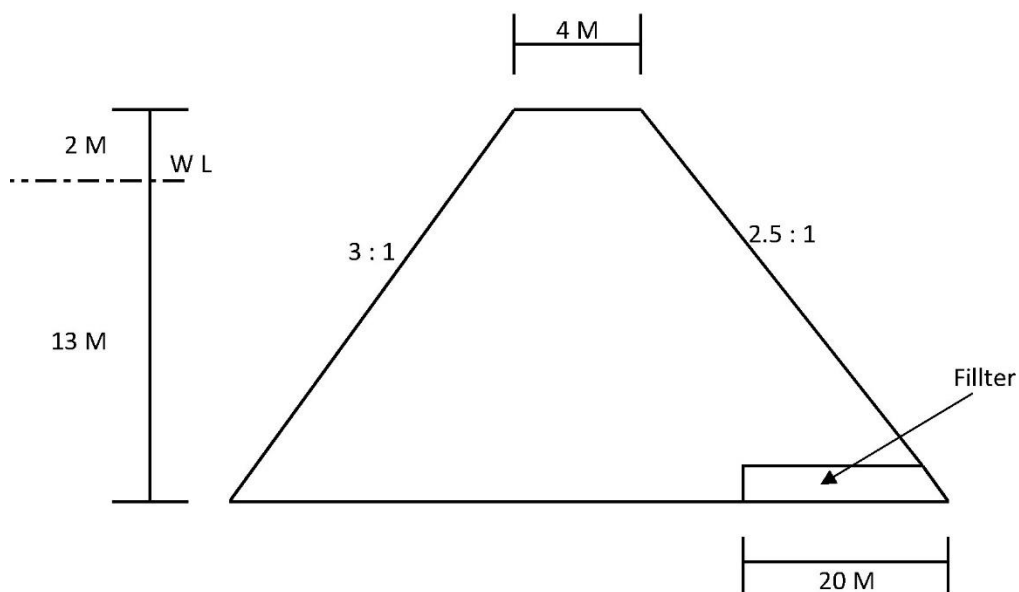
**Date : 04-08-2016**

### **Theory:**

1. Describe various causes of failure of earth dam.
2. Describe various criteria for safe design of earth dam.
3. Discuss recommendation for the design section of an earth dam.
4. Write short note on phreatic line.
5. Derive an expression to compute seepage discharge through the body of earth dam having horizontal filter at downstream.
6. Write short note on seepage control in earth dam.
7. Write a short note on settlement of rock fill dams.

### **Example:**

1. Calculate the seepage per meter length, through the body of dam for a given section. Coefficient of permeability may be taken as  $6 \times 10^{-3}$  cm/sec.



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