

ANALYSIS AND DESIGN OF A ROOFED WATER RESERVOIR

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ABSTRACT

In general, the section of analysis in my project is entirely based on the procedure of designing a liquid-retaining structure. It is vital to understand the whole method of designing before proceeding to the design work. Studies have been done on the important topics such as limit state design, reinforcement, joints, waterstops and methods of testing completed water structure.

The second part of my project is to design a roofed water reservoir. This section solely consists of calculations of designing a roofed water reservoir, with reference to BS8007 and BS8110. The whole design is further divided in few parts. The design calculations begin on the cantilever walls, followed by the roof slab, columns, wall footings and floor slab. All the calculations have been performed clearly in detail.