

Design of Prestressed Concrete Tank : A Review

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Abstract : Start from history of prestressed concrete tank present work focus on different conditions (i.e. leakage, crack of member) and behavior of Prestressed concrete tank which can be used for storing the high temperature liquid. The main components of prestressed concrete tank is divided into 3 parts- Tank floor, Tank wall, Roof slab. This paper presents advance research made on components prestressed concrete tank which helps for designing the tank as it is not included in IS 3370. This paper also deals with seismic effect on prestressed concrete tank.

Keywords : Prestressed concrete, seismic effect, tank components.

INTRODUCTION

To provide a detailed review of the literature related to modeling of structures in its entirety would be difficult to address in this chapter. A brief review of previous studies on the application of the prestressed concrete tank is presented in this section. This literature review focuses on recent contributions related to prestressed concrete tank and past efforts most closely related to the needs of the present work. Some of the historical works which have contributed greatly to the understanding of the concept of prestressing in structures are also described. First, a brief review of the historical background is presented. This literature is very useful in understanding the design of prestressed concrete tank by considering various condition and different types of loading.

HISTORICAL WORKS

Circular prestressed concrete tanks have been in various stages of development and perfecting for decades. Early systems used in the United States called for the use of cast-in-place concrete in the core wall of the tank and steel rods with turnbuckles as the prestressing elements. Although theoretically this approach to circumferentially prestressed concrete tanks was sound, deficiencies in placement of concrete together with insufficient residual compression in the core wall brought about modifications and improvements. In the early 1930's, the matter was fully understood when J.M. Crom, Sr. began the development of what was later to become the composite system of tank wall construction, using a steel shell cylinder with shotcrete encasement for the core wall, and high strength wire for the prestressing elements. Successors to Mr. Crom have over the years improved and perfected the

composite system for tank wall construction. These improvements have included the selection of better construction materials, together with ever-improving design and construction procedures. Consideration was given to:

1. Ready-mixed concrete and pneumatically applied shotcrete in combination with a steel shell diaphragm.
2. Prestressing rods, cables and high-strength wire.
3. Emulsion type sealants, polysulphides, polyurethanes, and epoxies for sealing the steel shell membrane.
4. Wall base joints using conventional waterstops; special bearing pad and waterstop combinations; and monolithic floor-wall joint connections.

Emerging from all of these was the development of the prestressed concrete tank:

1. The steel shell diaphragm was found to be the most foolproof means for making the core wall watertight.
2. Shotcrete with its high cement factor and low water/cement ratio had greater corrosion inhibition, impermeability and strength than conventional concrete.
3. High-strength wire could be used to more accurately apply prestressing forces and could be better protected from corrosion and mechanical damage.

In the early 1950's, J.M. Crom, Sr. and three associates, Ted Crom, Jack Crom, Jr., and Frank Bertie, established The Crom Corporation, with headquarters in Gainesville, Florida, for the prime purpose of perfecting the design and construction techniques for prestressed concrete tanks. Since then, their successors have continued the tradition of excellence initiated by the company's founders. The company has constructed in its own name and with its own forces over 3,300 circular and elongated prestressed concrete tanks.



Fig. 1: Cross Section of Prestressed concrete tank

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**FIB - International Federation for
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