

# Comparative Design Of Rcc Post Tensioned Flat Slabs

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## **Comparative Design Of Rcc Post**

Comparative Design of RCC & Post-tensioned flat slabs . INTERNATIONAL CONFERENCE ON CURRENT TRENDS IN TECHNOLOGY, „NUIcone - 2010“ 2 • Larger spans and greater slenderness, which results in

## **Comparative Design of RCC & Post-**

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## **Post-tensioned flat slabs**

A Comparative Study Between Post Tension & RCC Design The type of concrete which is pre-stressed before the application of live load to the member is called Post Tension Concrete. Its purpose is to improve the performance of concrete in service and to counteract the external stress load to a certain degree.

## **A Comparative Study Between Post Tension & RCC Design ...**

Post-tensioning is a method of reinforcing (strengthening) concrete or other materials with high-strength steel strands or bars, typically referred to as tendons. Post-tensioned construction is used more and more in industry today because of their advantages. Use of post tensioned flat slab is now a day becoming cost effective solution for improve seismic performance of construction industry.

## **A Review of Comparative Study on**

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## **R.C.C and Post Tensioned ...**

analysis and design rcc post tensioned slab.pdf. Content uploaded by Dhananjay K Parbat. ... By doing the comparative analysis and design of post-tensioned flat slab with a conventional slab, we ...

## **(PDF) Analysis and Design of RCC and Post-Tensioned Flat ...**

A Comparative Design of RCC and Prestressed Concrete Flyover along with RCC Abutments ... presented and an optimization of the design is discussed. Prestressed (Post tensioning) concrete is well suited for the construction of Flyovers in the medium to large span range.

## **A Comparative Design of RCC and Prestressed Concrete ...**

tensioned flat slab, post-tensioned beams and the RCC flat slab and the RCC slab and beams. After the design of these four cases the comparative study with respect to economy is carried out.

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The analysis, design and the estimation of the office building of the four floors systems is done. The

## **Literature Review- Comparative Seismic Performance of Post ...**

Comparative Study of RCC Flat Slab and RCC Beam-and-Slab Floor Systems A number of researchers have focused on comparative study of reinforced concrete flat slabs with post-tensioned and prestressed concrete flat slab and other types of floor systems.

## **Comparative Study of RCC Flat Slab and RCC Beam-and-Slab ...**

to reinforced concrete flat slab system. Both the systems are analyzed using RAPT and ETABS respectively which is based on the design methodology. The results indicate that Post Tensioned flat slabs are cheaper than the RCC slab systems. Key words: Equivalent Frame Method, Load Balancing, Flat Slab, Post Tension, safe design, RCC. 1.

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## **Comparative Study of Post Tensioned and RCC Flat Slab in ...**

A number of researchers have focused on comparative study of reinforced concrete flat slabs with post-tensioned and prestressed concrete flat slab and other types of floor systems. However, this research is focused on comparative study of RCC flat slab and RCC beam-and-slab floor systems.

## **Comparative Study of RCC Flat Slab and RCC Beam-and-Slab ...**

In our post on Structural Aspects of Pile Foundation Design, we showed how we can determine the number piles required to support a column load, in which we went ahead to design a triangular pile cap based on strut and tie method (truss analogy). In this post, we are going to design the same triangular pile cap using bending theory and finite element analysis from Staad Pro.

## **Comparative Design of Triangular Pile Cap with free PDF ...**

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Comparative Study of Post Tensioned and RCC Flat Slab in Multi-Storey Commercial Building Jnanesh Reddy R K1, Pradeep A R2 1PG ... Load Balancing, Flat Slab, Post Tension, safe design, RCC. 1.

## **Comparative Study of Post Tensioned and RCC Flat Slab in ...**

c. Appreciate the need to use finite element analysis in the design of reinforced concrete raft foundations. 1.4 Methodology The structural design of the raft foundation will be carried out using the conventional method of design (i.e. hand calculation) and finite element analysis.

## **Optimum Design Of Reinforced Concrete Raft Foundations ...**

A reinforced concrete column fixed at both ends is subjected to the following loading conditions as given below. We are required to obtain the appropriate longitudinal reinforcement for the column using BS 8110-1:1997 and

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Eurocode 2. The column is carrying longitudinal and transverse beams of depth 600mm and width 300mm. It is also supported by [...]

## **Comparative Design of Biaxial R.C. Columns to BS 8110 and ...**

axial and torsion for horizontally curved RCC box bridges using 3-D FEM based software SAP 2000. Moreover, Dhande et.al (2017) [4] carried out a comparative analysis and design of deck slab of minor bridge by effective width method and finite element method. It was concluded

## **ANALYSIS AND DESIGN OF BOX TYPE MINOR RAILWAY BRIDGE**

— In recent years post-tensioned floors are commonly used for parking purposes in residential and commercial high rise buildings. This paper includes result on a study of un-bonded post tensioned cast-in-place parking floor subjected to various



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## **(PDF) Analysis and Comparative Study of Unbonded Post ...**

10. M-40 Pre tensioning, M-30 Post tensioning Scope The purpose of research is to suggest the analysis of ... reinforced concrete beam model is studied and compared to experimental data. The parameters for ... Research on- Comparative Study of RCC and Prestressed Concrete Flat Slabs Vakas K. Rahman, Prof. A. R. Mundhada May.-June. 2013) ...

## **Comparative Analysis of Reinforcement & Prestressed ...**

A comparative study of PT and RCC flat plate is done considering the earthquake load using equivalent frame method using STRUDS software and result shows that the moment calculated for Post-tensioned flat plate slab is less as compare to moment calculated for RCC flat plate slab by equivalent frame method, Due to post-tensioning of flat plate slab there is no much effect on axial force but shear and moment on

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column increases.

## **A Review on Seismic Assessment of Post-Tensioned Flat Slab**

Comparative study of rcc t girder bridge design using different codes. there are different highway bridge design concepts and example of how selected eurocode, 2 forms of steel bridge construction 2.1 beam bridges bridge design, series of composite t-beams side-by-. "Continuous Span Reinforced Concrete Tee Beam Bridge".

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