

Post-Tensioning Design & Construction Seminar 7th & 8th December, 2010 Mumbai, India

Post-tensioning Design and Construction - A Two-Day Paid Practical and Theoretical Seminar

ADAPT, the leading name in the field of Post -Tensioning Software Solutions. invites you to join the Two Day Paid Seminar to equip you with the know-how and tools for efficient and economical design of post-tensioned buildings. It offers the latest developments in construction technology, code provisions, design procedures and software tools.

After a brief introduction of current post-tensioning systems and construction practice, the seminar continues with the economics of both bonded and unbonded options, and covers the practical design concepts and design procedures for beams, one-way and column supported two-way flat slab construction. Each step is supplemented with well-documented literature, examples, and computer simulations. The seminar continues with the state-of-the-art methods for graphical modelling of structures for analysis and design of floor systems, including efficient use of AutoCAD drawings, Revit Structure and ADAPT's model generation tools.

Seminar Objectives:

The Seminar will include:

- Current post-tensioning systems and construction practice in buildings and parking structures
- Economic advantages of post-tensioning in building construction
- Design concepts, procedures and detailing of post-tensioned structures
- Latest design code provisions for design of post-tensioned structures
- Overview and application of IS 1343
- Efficient tendon layout and detailing
- Detailed long hand calculations for post-tensioning design and design verification
- Equivalent Frame method for post-tensioned design
- Finite element application to design of post-tensioned buildings
- Structural modelling of post-tensioned buildings and design, using ADAPT software system, AutoCad and Revit Structure ©
- Time-dependent behaviour and creep analysis of pre-stressed concrete beams/slabs

Seminar Schedule

Schedule : 7th December, 2010 - Day 1

- Introduction to post-tensioning, post-tensioning systems and post-tensioning hardware
- Construction technology of post-tensioned structures; preferred construction practice
- Economics of post-tensioned construction and quantities
- Review of design concepts of concrete floors with specific reference to post-tensioning
- Building Code Requirements of IS 1343, EC2, BS8110, ACI, IBC and TR43 Report, and their impact on design of post-tensioned structures
- Long hand design example of a post-tensioned column supported floor structure
- Equivalent Frame Method and computer applications for design of post-tensioned floor systems and beam frames (using ADAPT-PT)
- Questions and discussion



Who Should Attend?

Structural engineers engaged in concrete and/or post-tensioning design

Contractors interested in the design of post-tensioned structures

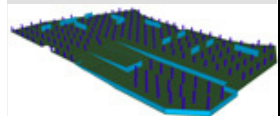
Engineers responsible for the review of post-tensioned designs

Academics and students having an interest and background in concrete design

Building officials and city plan checkers

Engineers charged with retrofit of post-tensioned buildings

Forensic engineers who deal with post-tensioned structures



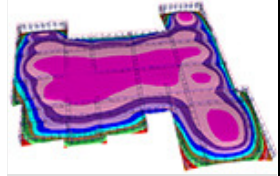
ADAPT

- helps you create
- * Multistoried Buildings
 - * Parking Lots*
 - * Shopping Malls*
 - * Multiplexes*
 - * Software parks*
 - * ROBs, Flyovers *

& Segmentally Constructed Bridges*
and so much more...

Schedule : 8th December, 2010 - Day 2

- Time-dependent behaviour and creep analysis for pre-stressed members
- Structural modelling of post-tensioned members for analysis and design
- Finite element design of post-tensioned floor systems using ADAPT-Floor Pro; a case study of design of a flat slab floor system; efficient use of AutoCad drawings and Revit Structure ©
- Design for restraint and crack mitigation in post-tensioned structures
- Design of post-tensioned floor systems in high seismic and wind regions
- Floor Vibration (Footfall Vibration Analysis)
- Questions and discussion



Seminar Benefits:

At this seminar, participants will:

- Receive comprehensive seminar notes and reference material including detailed design examples.
- Find out about the latest developments in post-tensioning systems, its construction practice and economical advantages
- Understand the requirements of various building codes (American, Eurocode, BS and IS Standards), TR43 Report and their impact on your design
- Learn how to avoid costly errors by using an integrated approach in design from architectural drawings to structural documents
- Become skilled in tendon layout and detailing for good construction practice
- Examine the possibilities of using powerful software tailored for the design of post-tensioned and conventionally reinforced concrete, including modelling and design through ADAPT software system and Revit Structure ©, ETABS, STAAD, ROBOT
- Learn to optimize the design process for efficiency and economy
- Learn how to integrate effectively the lateral analysis of buildings with the gravity design of their floors

Seminar Details:

Venue: Hotel Ramada Plaza Palm Grove, Juhu Tara Road, Juhu, Mumbai

Time : 9:30 AM – 4:30 PM on both days.

Date : 7th & 8th December, 2010

Seminar Fees:

Cost per person per Workshop*

- * Corporates & Professionals: Rs. 5,000 per person/workshop
 - * Group of 3 or more from the same organisation: Rs. 4,000 per person/workshop
 - * Students, Faculty from Technical Institutes: Rs. 3,000 per person/workshop
 - * Early Bird Booking (before 20/11/2010): 10% Discount
- (* 100% to be paid in advance vide cheque or DD in favour of ADAPT International Private Limited, Kolkata)
- * **Seminar to include lunch and refreshments.**

Key Speaker:



Dr. Florian B. Aalami

President, ADAPT Corporation, USA

Dr. Aalami is driving ADAPT's overall growth strategy by further strengthening the company's position as the leading provider of software and specialty consulting services for the concrete design industry.

Dr. Aalami earned a bachelor's degree in civil engineering from the University of California, Berkeley and both a master's degree in structural engineering and a doctoral degree in construction technology from Stanford University.

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