
S. VAITHIYANATHAN
Head & DGM - Library & Documentation Centre
Larsen & Toubro - ECC Division, Chennai, India

IATUL 2012 – NTU, SINGAPORE - 07.06.2012
“A Nation/Organisation’s inclusive growth and sustainable development is based on the world-class Continuing Education, Life-Long Learning, Research, Innovation, Competitive Intelligence & Core-Competency of its People”.

“Inspired minds transcend limitations”
“The empires of the future are the empires of the mind”.

Our goal is to organize and disseminate the world's best information and knowledge and to make it universally accessible in a seamless manner and useful for sustainable development and inclusive growth.”

- Sir Winston Churchill - Harvard University, USA - in 1943.
“A Nation or Society or Organisation is Great, not because a few people are Great, but because everyone in the Nation / Society / Organisation is Great”.

- Socrates – Great Greek Philosopher (469 BC)

“Inspired minds transcend limitations”
“Learning enhances Thinking. Thinking provides knowledge. Knowledge makes you great. Visionary Leaders having Knowledge with values make the Organisation, Nation and Society Great.”

- Dr. A.P.J. Abdul Kalam
PASSPORT TO 21ST CENTURY
- The Knowledge Century

★ WHAT?
★ WHY?
★ WHEN?
★ WHO?
★ WHERE?
★ HOW?
KNOWLEDGE IS POWER

THE MOST SUCCESSFUL PERSON IN LIFE IS THE PERSON WITH THE BEST INFORMATION/KNOWLEDGE.

- BENJAMIN DISRAELI
SIX MANAGEMENT EVENTS

THAT CHANGED THE WORLD

- Globalisation
- Liberalisation
- Privatisation
- Primacy of the Customer
- Information Revolution & Mass Merchandising of ideas
- Quality Obsession

THINK BIG TO FACE GLOBAL COMPETITION
"Globalisation has changed the Business, not just to sell or to serve, but to find intellectual capital – the world’s best talent and greatest ideas."

Think Global & Act Local

IT IS NOT THE STRONGEST OF THE SPECIES THAT SURVIVES, NOR THE MOST INTELLIGENT; IT IS THE ONE THAT IS MOST ADAPTABLE TO CHANGE.

- CHARLES DARWIN
ADVANCED TECHNOLOGY

NEW MARKET CHARACTERISTICS

WE AND OUR COMPETITORS

MNC NEW ENTRANTS

DRIVING FORCES IN THE NEW COMPETITIVE ENVIRONMENT

CLIENT REQUIREMENTS

KNOWLEDGE IS THE NEW COMPETITIVE WEAPON IN THE 21st CENTURY ECONOMY ACROSS THE GLOBE
ECONOMIC GROWTH IN DIFFERENT SOCIETIES

Primary Sector
- Natural Products

Secondary Sector
- Industrial Products
- Explicit Knowledge (Technology) added Products

Tertiary Sector (Services)
- Information Products
- Innovative knowledge-intensive Products/Services

Societal Transformation
- Agriculture Society
- Industrial Society
- Information Society
- Knowledge Society

Value Addition
- Raw material and Agricultural Products

Innovation and Growth
The fundamental cure for poverty is not money but knowledge.

- Sir William Arthur Lewis.
"The Earth is the cradle of mankind, but one cannot eternally live in a cradle!"
Knowledge Driven Society - India
People - The Prime Movers

Global Human Resources Cadre

Presently India has 540 Million youth Below the age of 25 Progressively increase up to 2050

Large Number Of talented Youth With higher education Are required Globally

Universities and Educational System should create TWO GLOBAL HUMAN RESOURCE CADRE

Youth with World Class Skill
- Manufacturing Sector
- Services Sector

Youth with Higher Education with Research
- World Level Requirement For Knowledge based Products and systems development

Higher Education in India: 6% to 20% by 2015 → 30% by 2020 → 50% by 2040

www.presidentofindia.nic.in
Switzerland leads the ranking as the most competitive economy in the world, as the United States, which ranked first for several years, fell to third place and Singapore— the country heaven on the earth moved to 2nd Position from the third, moving ahead of USA

Top 10 of the 2011–2012 rankings

1. Switzerland 5.74 (—)
2. Singapore 5.63 (+1)
3. Sweden 5.61 (−1)
4. Finland 5.47 (+3)
5. United States 5.43 (−1)
6. Germany 5.41 (−1)
7. Netherlands 5.41 (+1)
8. Denmark 5.40 (+1)
9. Japan 5.40 (−3)
10. United Kingdom 5.39 (+2)
Learning to win by sharing

BUILDING KNOWLEDGE-BASED SOCIETY (KBS)

- Industrial Economy - Information Economy - Knowledge Economy – Knowledge Century – the new Millennium 21st.

- Transforming information and knowledge into intelligence fundamental basis of competition to achieve excellence & world-class performance.

- Digital Libraries (DL) have emerged as vehicle for organising collection, dissemination and preservation of digital information/knowledge.

- KBS seeks to bring the highway of information & knowledge to everyone; mission is to dissolve “barriers to information and knowledge equity”.
Core Competencies – Competitive Intelligence

Competitive Advantage

✓ Core Competencies - are what the Society / Nation / Organisation is specially or uniquely capable of doing well in comparison with its competitors. It is a “holistic” approach all-embracing, every aspect of the core areas of business. Innovation, quality and cost leadership are the three most important factors to achieve competitive advantage and excellence. All depends on the quality of the human resources and their Competitive Intelligence (Porter, 1985).

✓ The new millennium brings more challenges, more complexity and more competition. Nations / Societies / Organisations paying attention to strengthening core competencies have nothing to fear & everything to gain. Information & Knowledge is the key source of competitive advantage and a pre-requisite in a knowledge-based Society. Core Competencies and Competitive Intelligence help to accomplish its mission (Drucker, 2001).
"Without learning, the wise become foolish; by learning, the foolish become wise."

"The illiterate of the 21st century will not be those who cannot read and write, but those who cannot learn, unlearn and relearn."
- Sir Alvin Toffler
“New mantra – Learning”
Emergence of New Learning Culture

“In the 21st Century - Knowledge is the primary production resource, Instead of capital or labour”.

Knowledge is the food of the learning societies, its nutrients enable the Nation to grow. Individuals may come and go, but its valued knowledge is lost, the Society/Nation/Organisation will starve to death. There will be no poor countries. There will be only ignorant countries.”

Dr. Peter F. Drucker – Modern Management Guru
Education with value system

*Ancient GREEK Teacher says*

"Give me a child for seven years; afterwards, Let God or devil take the child. They cannot change the child."

Moral Science Class that will elevate the young minds to love the country, to love the other human beings and elevate them to higher planes.
“The real treasure of India is its intellectual Capital. The real opportunity of India is its incredibly skilled work force. Raw Talents here is like nowhere else in the World”.

- John F. Jack Welche, 
  (former CEO, General Electric, USA).

Dr. A.P.J. Abdul Kalam in his presentation to NRIs in New Delhi on what he called the **World Knowledge Platform** - A Mission, exhorted all Indians on the planet to pool resources to ensure the best for the motherland. By 2020, a near zero per cent Indians living below the poverty line, a near 100 percent literacy, with every Indian having a university degree or quality training, a transparent governance system, electricity in all villages, no shortage of water, et al. The knowledge-based society leads to "quality human resources" having the best core competencies and competitive intelligence with empowerment in by 2020, This will be a singular contribution which your motherland will be proud of, he said.
LARSEN & TOUBRO LIMITED
Knowledge-based Organisation

- Multi dimensional Engineering Conglomerate
- India’s Most Respected - Professionally Managed
- Among India’s Top Ten (Sales > US $ 11.8 Billion)
- > 6 Lakh Share holders
- Fast Becoming an Indian Multinational
- Knowledge Driven Organisation
India’s largest Construction Organisation

Many of India’s prized Land Marks are built by ECC

28000 Employees - 75% Engineers

Currently >425 jobs at 400 locations in India & Abroad

Focus on Quality, Technology & Speed

Builds Projects that Builds the Nations
Knowledge-Based Organisation – People - The Prime Movers

L&T shall be a professionally-managed Indian multinational, committed to total customer satisfaction and enhancing shareholder value.

L&T-ites shall be an innovative, entrepreneurial and empowered team constantly creating value and attaining global benchmarks.

L&T shall foster a culture of caring, trust and continuous learning while meeting expectations of employees, stakeholders and society.

LARSEN & TOUBRO LIMITED

KNOWLEDGE IS THE NEW COMPETITIVE WEAPON IN THE INFORMATION-DRIVEN ECONOMY ACROSS THE GLOBE
Information is going to become knowledge
digital replaces the physical
everyone & everything will get connected, eventually

Information & Knowledge - Key asset of organisation
Fundamental basis of competition & competitive advantage

Four Technologies
Create significant impact:

Knowledge Management
Convergence Technologies
Collaborative Technologies
Web Services
DL & IKOSM EFFORTS IN L&T ECCD

New Projects Information Service - Daily
Press - Clippings of L&T ECC Division - Daily
New Additions List - Books - Monthly
New Additions List - Standards - Monthly
Management Update - Monthly
Technology Update - Monthly
Economic Indices - Monthly
Overseas Tender Information Service - Need Based
Technical Information and International Standards support services to Projects Job sites - Need Based
Projects Profiles
Soil Investigation Reports
EDRC Design Data Documents
L&T-IIT Build India Projects Reports
DEVELOPMENT OF HUMAN CAPITAL (INTELLECTUAL ASSETS) THROUGH WEB ENABLED VALUE - ADDED INFORMATION SERVICES

ENHANCING INDIVIDUAL COMPETENCIES

CORE COMPETENCIES OF ORGANISATION

COMPETITIVE INTELLIGENCE (INDIVIDUAL ORGANISATION, FAMILY, INDUSTRY AND SOCIETY)

CONTRIBUTES FOR BUILDING KNOWLEDGE-BASED SOCIETY.
Interactive Lectures Series – Monthly
Born to Win - Attitude determines Altitude

Inner Engineering By Sadhguru Jaggi Vasudev,
Isha Foundation, Coimbatore.
On 18-8-2006
Interactive Lectures Series – Monthly

“If you have knowledge, let others light their candles in it”.
- Margaret Fuller.

VALUES IN LIFE

by

Prof. Dr. D. Viswanathan, M.E., Ph.D.,
Vice Chancellor - Anna University, Chennai, on 21-07-2006
INFORMATION RESOURCES
UNITY IN DIVERSITY & INCLUSIVE GROWTH

PRINT MEDIA
Books / Conference proceedings/Reports
Periodicals
Newspapers

MICROGRAPHICS
Micro films
Micro fisch

ELECTRONIC MEDIA (DIGITAL LIBRARIES)
CD-ROMs
DVD (Digital Video Disks)
On-line Databases
Internet & Intranet

MAGNETIC MEDIA
Audio cassettes
Video cassettes

INDUSTRY - UNIVERSITY INTERACTION - NETWORKING

RIGHT INFORMATION TO THE RIGHT USER AT THE RIGHT TIME
Welcome to intranet website of Library & Documentation Centre

Knowledge is Power

"The most successful man in life is the man with the best information"

- Benjamin Disraeli

(Former British Prime Minister)
E-Resources (Digital Library)

E-Collections at LDC form the basic building blocks for the Digital Library. E-Resources refers to the digitized documents that are available for on-line access to the users. The various types of e-collections at LDC:

- E-Databases
- E-Books
- E-Standards
- E-Journals
- E-Reports
- E-Articles (Technology / Management)
- E-Project Profiles
- E-Business Information Service (Sales Leads)
- E-Learning & Training Packages (CD-ROMs, CBTs, Video & Audio Tapes and Slides)
Greetings and a very good evening,

This article selected from CE & CR, October 2011 is e-mailed to you by SV (SV@Inteccc.com) - FOR YOUR KIND PERUSAL & INFORMATION.

"Born to Win - Read to Lead, Succeed..."

Construction Marvel: Palm Jumeirah - A Unique Man-made Island in Dubai. Please refer the PDF enclosed for full details of the project report.

Palm Jumeirah
CECR October 2...
What Causes Earthquakes?

The Earth and its Interior

Long time ago, a large collection of material masses coalesced to form the Earth. Large amount of heat was generated by this fusion, and slowly as the Earth cooled down, the heavier and denser materials sank to the center and the lighter ones rose to the top. The differentiated Earth consists of the Inner Core (radius ~1290km), the Outer Core (thickness ~2200km), the Mantle (thickness ~2900km) and the Crust (thickness ~5 to 40km). Figure 1 shows these layers. The Inner Core is solid and consists of heavy metals (e.g., nickel and iron), while the Crust consists of light materials (e.g., basalts and granites). The Outer Core is liquid in form and the Mantle has the ability to flow.

Figure 2: Local Convective Currents in the Mantle
Greetings and a very good morning,

Report received from McKinsey is e-mailed to you by SV (SV@Intecc.com) - FOR YOUR KIND PERUSAL & INFORMATION.

"Born to Win - Read to Lead, Succeed..."


This McKinsey Report projects - India on the Move - Opportunity of India’s Urbanization to 2030:

- US $ 1.2 Trillion Capital Investment is necessary to meet the projected demand in India’s Cities
- 700-900 million square meters of commercial and residential space needs to be built – a new Chicago every year
Greetings and a very good afternoon,

Article selected from IIMA Vikalpa is e-mailed to you by SV (SV@intecc.com) - FOR YOUR KIND PERUSAL & INFORMATION.

"Born to Win - Read to Lead, Succeed..."

1. Leadership Development in Organizations in India: The Why and How of It (Part II) :  

In the 21st century, leadership and globalization are inexorably linked. With the world having become metaphorically smaller from technological advancements that have geometrically increased communication, travel, and trade, leaders, by default now work in a global context.

Core Learning Programmes and company-wide consistent programmes that impart key know-how and skills which enable employees to develop as Leaders and perform outstandingly in their respective jobs. Specifically geared to, these programmes are of pivotal importance for systematic Human Capital Development and Management (HCM).

See more about S.Vaithiyathan.
✓ Introduced the one-Engineer – One Journal review system. Under this a team of engineers have been identified.

✓ An engineer adopts a journal and review the issues. Selects articles of interest to the organisation keeping the strategic planning and technology requirements.

✓ Bibliographic details along with abstracts and full-texts of select articles are made available for on-line access by subject wise by all the employees.

✓ Unique Organisational Learning initiative.

Individual learning Transformed into Team learning and Organization-wide learning.
## Number of CBTs Available - 9

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These articles compiled from various newspapers are e-mailed to you by SV (SV@Intecc.com) - FOR YOUR KIND INFORMATION

"Born to Win - Read to Lead, Succeed…

1. L&T Board appointed Sri. K. Venkataramanan (KV) as CEO & MD (Hindu 09.03.2012)

(Larsen & Toubro has appointed whole time director Sri. K. Venkataramanan as CEO and MD)

In a long-awaited top management succession planning exercise, corporate giant Larsen and Toubro has appointed Sri. K. Venkataramanan (KV) as...
Please Select One of the Resource types in the left frame to proceed

Switch to Home Page
## Category: Civil Engg (1538)

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Designation: C1157/C1157M – 10

Standard Performance Specification for Hydraulic Cement

This standard is issued under the fixed designation C1157/C1157M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This performance specification covers hydraulic cements for both general and special applications. There are no restrictions on the composition of the cement or its constituents (see Note 1).

Note 1—There are two related hydraulic cement standards, Specification C150 for portland cement and Specifications C595 for blended cements, both of which contain prescriptive and performance requirements.

1.2 This performance specification classifies cements based on specific requirements for general use, high early strength, resistance to attack by sulfates, and heat of hydration. Optional requirements are provided for the property of low reactivity with alkali-silica-reactive aggregates.

1.3 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard. Values in SI units [or inch-pound units] shall be obtained by measurement in SI units [or inch-pound units].

2. Referenced Documents

2.1 ASTM Standards:

C114 Test Methods for Chemical Analysis of Hydraulic Cement
C150 Specification for Portland Cement
C151 Test Method for Autoclave Expansion of Hydraulic Cement
C183 Practice for Sampling and the Amount of Testing of Hydraulic Cement
C185 Test Method for Air Content of Hydraulic Cement Mortar
C186 Test Method for Heat of Hydration of Hydraulic Cement
C188 Test Method for Density of Hydraulic Cement
C191 Test Methods for Time of Setting of Hydraulic Cement by Vicat Needle
C204 Test Methods for Fineness of Hydraulic Cement by Air-Permeability Apparatus

Note: For more information on these documents, visit the ASTM website at www.astm.org.
100. SCOPE

This Code deals with the general features of design of road bridges and the recommendations of this Code shall apply to all types of bridges constructed for use by road traffic or other moving loads.

101. DEFINITIONS

The following definitions shall be applicable for the purpose of this and other sections of the IRC Standard Specifications and Code of Practice for Road Bridges.

101.1. Bridge

Bridge is a structure having a total length of above 6 metres between the inner faces of the durt walls for carrying traffic or other moving loads over a depression or obstruction such as channel, road or railway. These bridges are classified as minor and major bridges as per classification given below:

(a) Minor Bridge : A minor bridge is a bridge having a total length of upto 60 m.

(b) Major Bridge : A major bridge is a bridge having a total length of above 60 m.
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Baha’i House of worship, New Delhi

Client : National Spiritual Assembly of the Baha’is of India at New Delhi.


Location : Hill at Kalkaji, New Delhi.

Contract period : 72 months (1981-1986)

Contract value : Rs. 872.3 Lakhs.

Scope of work : Construction of the Lotus Temple Complex consisting of the main house of worship, the ancillary block which houses the reception centre, the library and administrative building along with a basement to accommodate other services.

Objective : To provide congenial atmosphere & a place of worship for the community of Baha’is in India.
PM Inaugurates HI-TEC City

"The HI-TEC City is a tribute to the partnership between the Andhra Pradesh Industrial Infrastructure Corporation (APIIC) and L&T," said Mr. Atal Behari Vajpayee, Prime Minister, while inaugurating Cyber Towers, HI-TEC City (Hyderabad Information Technology Engineering Consultancy City) at Madhapur, Hyderabad, on November 22, 1998.

Adding that this partnership has, in just 18 months created an impressive building which will become one of the best known

Hyderabad, in Cyber Towers. The PM then inaugurated the Internet Services of Satyam Group, one of the occupants of Cyber Towers.

Earlier, welcoming the gathering, L&T's Managing Director & Chief Executive Officer, Mr. S.D. Kulkarni said, "L&T had constructed the Baha'i Temple in Delhi some years ago and now we have constructed this Cyber temple in Hyderabad in just 15 months. This shows what Indians can achieve".

Explaining the salient features of the HI-TEC City project, Mr. A. Ramakrishna, L&T's President (Operations), said that Phase-One of this project -- namely, Cyber Towers -- is a world-class facility developed by L&T INFOCITY Limited (a joint venture of APIIC and L&T) for Information Technology companies. It is being offered, he said, at an extremely reasonable price of Rs.2,750 per sq. foot. "This facility offers a one-stop solution to the IT companies," Mr. Ramakrishna declared. Adding that total project outlay was Rs.15,000 million and for Phase-One, Rs.1,200 million, he said, "Major international and Indian companies have already

Mr. N. Chandrababu Naidu, Chief Minister of Andhra Pradesh, described this event as an important milestone. "IT is an environment-friendly technology and we must understand that it is no more a luxury," he said, adding that the Government and private sector should work together to harness IT for benefit of the common man. He complimented L&T for completing this project in record time.

Dr. C. Ranganarajan, Governor of Andhra Pradesh; Mr. Devang Mehta, Executive Director of NASSCOM; and Mr. B. Dattatreya, union Minister of State for Urban Affairs & Employment, also spoke on the occasion.

Mr. A. Chandrasekhar, Chairman & MD of APIIC proposed a vote of thanks. The function was compered by Mr. S. Chandrasekar GM (Plant & Human Resources), ECC.

The magnificent Cyber Towers.
Greetings and a very good evening,

Request you to kindly arrange to forward Projects Documentation Reports of following projects listed (completed/nearing completion) being executed in your Cluster Area to our LDC for inclusion in our Projects Documentation Centre (PDC) Database collection for our future reference and use.

Chennai Cluster Projects:

2. LE090475 – ESI Hospital, Kovai, T.N.
4. LE1000124 – JIPMER Hospital, Phase II, Pondy.
5. LE090358 – MIOT Hospital 400 Bed European Block, Chennai.
7. MBBH7533 - ITC Grand Chola Hotel, Chennai.
8. MBHG7525 - Eden Park Housing, Siruseri, Chennai.
9. MBBK7529 - Estancia IT Park, Chennai.
10. MBBK7541 - CTS Software Office Complex, Phase II, MEPZ, Tambaram, Chennai.
11. LE090254 - Daimler Hero's Test Track, Oragadam, Chennai.

Hyderabad Cluster Projects:
Greetings and a very good evening.  

Projects News compiled from MEED are e-mailed to you by SV  (SV@intecc.com) - FOR YOUR KIND PERUSAL & INFORMATION.

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"Born to Win - Read to Lead, Succeed..."

1. Jabal Omar mixed-use scheme project - construction of four hotel towers - each tower 31 to 40 storeys high - Contractors invited to prequalify for 3rd phase (MEED 06.03.2012)

The Jabal Omar Development Company has invited contractors to prequalify for phase three of its Jabal Omar project in Mecca, Saudi Arabia. Work will involve building four towers. The third phase will involve the construction of four hotel towers, with each tower 31 to 40 storeys high. The total built up area will be 388,000 square metres. The developer recently invited contractors to submit bids for the main construction contract for second phase of the mixed-use scheme. The second phase of the scheme will also contain four hotel towers, which will be operated by the Starwood Hotels and Resorts Group. Two of the towers will be used as Westin Hotel, and two are planned to be run as a Sheraton hotel. The Development will consist of 37 towers when completed. The local Nesma & Partners Construction is currently working on the first phase of the development, which involves the construction of nine towers. Nesma replaced the local Saudi Binladin and Saudi Öger, which had originally been appointed to build the first phase.

2. Doha plans to set up a five star hotel - Dewan won design contract (MEED 06.03.2012)

The UAE-based Dewan Architects & Engineers has been awarded a consultancy contract to design and supervise construction of a five-star hotel at Education City in Doha. Dewan will design the four-storey Premier Inn planned for the Education City development, a 14-square-kilometre development on the western edge of Doha. The three-storey hotel will have 200 rooms and is set to open in 2013. The Education City scheme is being developed by Qatar Foundation and is due to be completed in 2013. Two hotels totalling 560 rooms and valued at $700 million are under construction. Roughly 2500 jobs are currently being advertised.
EDRC Design Project Report - Search Page

Job No: 2207-A      SBU: Development Projects      Region: EDRC Design - B and IP      AccNo: 1

Title: Coimbatore Bypass (Road Project) - Irugur ROB Structure Abutment - Design Calculation

Client: L & T Transportation Infrastructure, Chennai      Design Team: Roads

Project Started At: September 1998

Project Completed At: November 1998

Abstract: This design Project presents the design calculation on the Coimbatore Bypass - Irugur ROB job. The content include: 2207-A - Design Abutment, 2207-B - Design of the beam, Arch and wind Bracing, 2207-C - Design of Hangers, cross beams deck slab and Miscellaneous & 2207-D - Tie Beam construction Stages.

Keywords: Bypass     Roads     Highways     Coimbatore     Transportation

FullText: 1.pdf
Title: Study of Constructibility Issues in Building Projects.

Author: RESHMA, (R).


Institution: IITChennai  Department: Civil  Year of Publication: 2000

Abstract: In this project study, constructibility issues are collected from four Building Projects. Analysis of issues exposes the root causes of the problems encountered and enables the categorisation of the constructibility issues. This study has yielded the following six categories of constructibility issues: Construction Sensitive Design; Effective Communication of Engineering Information; Optimal Construction Originated Construction Techniques; Effective Construction Resource Management Policies / Standards; Vendor / Subcontractor Service Improvements; Construction Input to Design. Eight Management Tools are identified and their suitability in addressing the constructibility issues are analysed.

Keywords: Building Projects Constructibility Design Construction

FullText: 1.pdf
Job No: MTTO463-5      SBU: Infrastructure      Region: Chennai      Acc No: 1

Title: Metropolitan Railway Transport Project Phase-II- Thirumailai-Velachery, Chennai-Construction of Superstructure.

Client: Metropolitan Trasnsport Project(Railways), Chennai      Project Manager: T.Ravikumar

Project Started: August 1999      Project Completed: June 2001

Abstract: This Project Report presents the salient features,structural details of the MRTS-phaseII-Thirumailai to Velachery superstructure construction with PSC Box girder over substructure between 8,960-11,266KM Thirumailai Luz to Adyar River.

Keywords: Railways      MRTS      Superstructure      Chennai      Bridges

FullText: 1.pdf      Image: 1.jpg

Location: Rack: 12      Shelf: 1
HUH, (J) & HAlDAR, (A).

Uncertainty in Seismic Analysis and Design.

SERC-JOURNAL OF STRUCTURAL ENGINEERING (Q)

Vol. 29(1), APR-JUN 2002, Pages: 1-7

ABSTRACT: Seismic analysis and design procedure under uncertainty is proposed. The catastrophic damage caused by recent earthquake prompted the study. A stochastic finite element-based hybrid approach is proposed to evaluate the readability of complicated real structures considering all major sources of uncertainty and nonlinearity. The algorithm rationally and effectively combines the concepts of the response surface method, the finite element method, the first-order reliability method and the iterative linear interpolation scheme. The unique feature of the technique is that the seismic loading can be applied in the time domain, providing an alternative to the classical random vibration approach. The algorithm was elaborated by evaluating the probabilities of failure of braced and unbraced steel frames. Several design implications were identified. The information on the probability of failure can be used in the risk-consistent performance-based seismic guidelines being developed by many countries. The selection of member sizes and arrangements as well as performance requirements can be established with the time domain explicitly considering the uncertainty associated with it. In the analysis and design of structures, uncertainty in seismic loading should not be overlooked.

Keywords: Seismic Analysis; Stochastic Finite Element; Reliability Analysis; First-Order Reliability; Unbraced Frame; Response Surface Method;
Library & Documentation Centre, HQ-Chennai

Saturday, February 14, 2004

L & T Publications Articles Database-SEARCH

Article No. From:

Article No. To:

Title:

Author:

Keyword: parliament

Journal: (none)

SBU: (none)

Region: (none)

Project Category: (none)

Country:

State: (none)

Year: (none)

SEARCH
Title: Parliamentary Library Buildings at Raisina Hill In Delhi.

Project Category: Educational Institutions

Country: India  state: Delhi

Year of Publication: April 2002

Volume & No: 25(3)  Pages: 32-37

Author1:  Author2:  Author3:

Keywords: parliament  library  raisina  bubbleroof  delhi

FullText: 17.pdf
Title: Parliamentary Library Buildings at Raisina Hill In Delhi.

Project Category: Educational Institutions
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Year of Publication: April 2002

Volume&No: 25(3)
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Author1: Author2: Author3:

Keywords: parliament library raisina bubbleroof delhi

Full Text: 17.pdf
Parliament Library

Many an architectural dream remains a mere drawing on the drafting board or worse still, goes awry in the translation of the concept to concrete reality. However, in building the Parliament Library on Raisina Hill in Delhi, ECC has remained steadfast to each and every expectation of the architect. Indeed Mr. Raj Rewal says how thrilled he was to see the first sandstone columns of the Library complex being erected, because “what was only an idea till then had now become a reality.” That was then when he began to feel “confident that L&T would complete the project in toto sans any major design variation. Working with L&T was indeed an enjoyable and learning experience.

In creating the marvelous Parliament Library ECC once again brought its range of capabilities into play – namely, civil, structural, mechanical, electrical engineering, procurement and project management skills. Meeting every exacting requirement of the design features ECC executed the project within the stringent parameters of space, speed, quality, safety, security and low decibel level. In doing so, ECC reiterated its ability to orchestrate a massive mobilisation of engineering talent, craftsmen, and skilled labour as also state-of-the-art Plant & Machinery. The end result is a mix of Indian construction styles with cutting edge technology. It is unmistakably reflected in the aesthetics of the Library complex, which blends so well with Parliament House, the mother complex building since Independence and as a modern building with Indian roots. Says client representative Mr. K. Srinivasan, Chief Engineer & Project Manager, Central Public Works Department (CPWD): “The Parliament Library is the largest project executed by CPWD in the last 80 years. It is one of the best buildings now in the cityscape – an encomium repeated by several visitors. L&T is mainly responsible for the superstructure and the novel domes that go over it.” He appreciates the excellent co-ordination of L&T with CPWD and over 70 contractors/agencies. It ensured a close-knit team effort. “Not many can compare with L&T in the matter of site mobilisation, IR/PR and concern for safety/welfare of thousands of workers involved in a project of this mammoth...
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“KNOWELEGNE MAKES YOU GREAT”

Mindset matters - Thoughts Create the World

Mahatma Gandhi's Mother's advice

"Son, in your entire lifetime, if you can save or better someone's life, your birth as a human being and your life is a success. You have the blessing of the Almighty God".
"Past meets the present and creates the future".

Bhagavat GITA

A Message to Humanity

"See the flower, how generously it distributes perfume and honey. It gives to all, gives freely of its love. When its work is done, it falls away quietly. Try to be like the flower, unassuming despite all its qualities".

What a beautiful message to the humanity on the purpose of life reflected the spiritual component. Can we bridge the spiritual component of the religions to bring peace to nations and to the world? 

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“The empires of the future are the empires of the mind”.

Our goal is to organize and disseminate the world's best information and knowledge and to make it universally accessible in a seamless manner and useful for sustainable development and inclusive growth.”

- Sir Winston Churchill - Harvard University, USA in 1943.
Paraphrasing a quote from John M. Richardson, Jr.

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And then, be one of the people who will help make the future happen – creators of Wealth, Inclusive Growth & Sustainable Development to all.
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There is beauty in the character.

When there is beauty in the character,

There is harmony in the home.

When there is harmony in the home.

There is an order in the nation.

When there is order in the nation,

There is peace, prosperity, happiness, harmony, blissfulness in the world.
THE ROAD AHEAD - READY TO WIN
IF WE DO NOT DRIVE TECHNOLOGY,
INFORMATION & KNOWLEDGE THEY WILL
DRIVE US OUT.

CHANGE IS THE PROCESS
VISION IS THE PATH
CORE VALUES ARE THE MEANS
LEADERSHIP IS THE ROLE
THAT TRANSFORMS US

THANK YOU