



SRI VENKATESWARA COLLEGE OF ENGINEERING
An Autonomous Institution-Affiliated to Anna University
Pennalur, Sriperumbudur 602 117

DEPARTMENT OF CIVIL ENGINEERING

Guest lecture programme

On

**“RCC DESIGN CONCEPTS OF VARIOUS
MEMBERS IN A MULTI-STOREY
BUILDING”**

Held on
10-03-2020

A Report

DR. COLONEL. P. NALLATHAMBI



DR. Colonel. P Nallathambi. Ph.D(Structural Engg), ME, MBA, MCA, FIE,
Principal Structural Consultant, Sakthi Consultancy Pvt Ltd, Chennai,
Mobile: 094440 20706 & 82481 65873, Mail id : nalla.sakthi@gmail.com

Career Overview

A creative professional with 21 years of rich experience In Indian Army and Military Engineering Service (MES), worked as Project Executive, Structure Engineer, Project Planning and coordination and Resource Manager. After taking voluntary retirement from Army, Past 10 years, working as a Civil and Structural Consultant and provided design in RCC and Steel structure for Residential, Commercial and Industrial buildings, Project Management consultancy etc which are high lighted below.

Proficient in design of Residential and Commercial Buildings, Hangers and Industrial building, Townships, Roads, Sewage Scheme, Hospital Planning, etc.

Deft in swiftly ramping up project management in close co-ordination with contractors, consultants, & other external agencies, ensuring on time deliverables and compliance.

Excellent relationship with management, communication skills presentation with demonstrated abilities in leading motivated teams to achieve organizational goals.

Core Competencies

Structural Engineering

- ❖ Design of RCC buildings, water retaining structures, Steel Roof Structures, Small span bridges and Space frame roof, Hangers for Helicopters and Pre Engineering buildings.
- ❖ Overseeing construction entailing structural and architectural design drawings check and recommending design modifications.
- ❖ Reviewing the project drawings, specifications, assure the structural and architectural applicability. Support as-built drawings upon project completion.
- ❖ Performing reinforcement cutting, bending & caging.
- ❖ Interacting with clientele to ascertain needs and develop design directions, concepts and specifications for assigned projects.
- ❖ Working with contractors at early stages of designing & making necessary changes to designs.

Project Management

- ❖ Management of material procurement, controlling of production activities and innovation to reduce construction time.
- ❖ Making the budgetary estimates of the project.
- ❖ Reviewing all documentation associated with structural and architectural designs.
- ❖ Performing monthly reconciliation of all BOQ items executed.
- ❖ Preparing the bills of executed works, estimating the costs of various projects/works, and scrutinizing bills of various subcontractors.
- ❖ Arranging the master schedule of the project.

Project Planning

- ❖ Managing project activities right from the conceptualization stage to the execution; involving finalization of technical specifications, tendering, procurement, scheduling, progress monitoring, site management, manpower planning & liaising with consultants & contractors.
- ❖ Establishing time span of project execution as per client specifics; listing down resource needs for projects, after considering the budgetary parameters set.
- ❖ Planning time & resources, scheduling the activities, updating actual progress, analyzing variance, forecasting weekly & monthly resource requirements etc.
- ❖ Anchoring on-site construction activities to ensure completion of project within the time & cost parameters and effective resource utilization to maximize the output.
- ❖ Participating in project review meetings for evaluating project progress providing technical inputs to construction methodology.

Employment Highlights

Jan 09- Till Date As Principal Structural Consultant and Managing Director of Sakthi Consultancy Pvt Ltd, Chennai

Contributions:

- ❖ Design of Box Girder Bridges for URC construction for railways in Ramco Nagar, Virudhunagar.
- ❖ Design of Steel members for MRTS station Building at Madipakkam, Chennai for URC Construction.
- ❖ Proof checking of multistoried building of 21 floor for Mahimuthra at Chennai.
- ❖ Project Management Consultancy of SM Auto Factory building near Sriperupudur Sipcot Factory.
- ❖ Project Management Consultancy of Banquet Hall at Cochin, Sona Koyo steering Pvt Ltd, Chennai..
- ❖ Design verification of Multistoried commercial complex (G+12) at Medavakkam, Chennai.
- ❖ Design verification of Annai Medical College (G+6), Sriperumpudur, Chennai..
- ❖ Design verification of Residential Tower (B+S+8) at Ayyampakkam, Chennai.

- ❖ Structural design of G+8 Multistoried Residential buildings, G+2 Club House at Tirupathi.
- ❖ 40 m Steel bridge and 40m ht Lighting tower for Karaikal Port.
- ❖ 30m Span, 80 m long Godowns for Storage of fertilizer at Karaikal Port.
- ❖ G+4 Admin building at Karaikal port.
- ❖ Design verification G+7 IT Park, G+5 Science part near MARG SEZ, Kalpakkam, Chennai.
- ❖ Associated with Transtroy India Ltd with Tuticorin- Tirunelvel Road construction projects As Bridge Engineer and local coordinator for water line shifting.
- ❖ Infrastructure development for MARG SEZ, near Kalpakkam, Chennai.
- ❖ Info park at Cochin G+11 storied with PT Slab and Pile Foundation.
- ❖ IOB Karaikudi G+10 storied Building.
- ❖ Structural design of Multistoried buildings, Residential and Industrial buildings.
- ❖ Structural design of Multistoried buildings, Residential and industrial buildings.
- ❖ Admin and Hanger annexure buildings for Air India Hyderabad (4 storied) planned by Pitavadian and Partners.
- ❖ Commercial building for Union bank at Broadway, Chennai (4 storied) planned by Pitavadian and Partners.
- ❖ Commercial complex at Mount Road (10 storied building) planned by Pitavadian and Partners.
- ❖ Admin Building for NIIT, Suratkal (5 Storied) planned by Pitavadian and Partners.
- ❖ Accommodation for police Housing at Egmore (2 Storied).
- ❖ 201 Airmen accommodation for Air force station Yelhanka Bangalore.
- ❖ Many residential buildings in Chennai for various clients.

Oct 08-Dec08 with Mott Macdonald Structural Consultancy Ltd., Chennai as Project Manager in Structural Design Division

Contributions:

- ❖ Involved in design of a building (43 stories) using ETAB software and Spread Sheet, Post tension slab and beam design based on British code for Dubai.
- ❖ Have handled large span RCC cum steel auditorium and college buildings for Royal Walsh based on British Code.
- ❖ Successfully prepared design documents, Calculation of time and effort (Man-hour), Scope of Work and design philosophy for UK projects.

May98-Sep08 with Chief Engineer Office, Military Engineering Service, (MES) Head of Design and Planning Department

Contributions:

- ❖ **Head of Design** division for nine years in which design, planning and site development of many Chief Engineer Projects (Costing more than 50 Lakhs) for Military Engineering Service under Army Units located in Maharashtra, Tamilnadu, Kerala and Karnataka state. Independently designed many projects and guided many project. Delivered the requirements on time with high standard.
- ❖ RCC design including multi-storied buildings, water retaining structure and small span Bridges. Steel design including Space frame, hangers, factory buildings and Pre Engineering buildings, etc.
- ❖ Independently designed many projects and guided many project. Delivered the requirements on time with high standard. Some of the projects are:-
- ❖ RCC bridge at Wellington, Ooty
- ❖ Administrative building for DSSC Wellington.
- ❖ Auditorium 450 seats capacity at DSSC Wellington.
- ❖ 30 m wide 75 m long Steel roof building for Airforce station at Avadi, Chennai
- ❖ Swimming pool for HVF at Avadi, Chennai
- ❖ Accommodation for Army area at Pallavaram, Chennai
- ❖ Indoor basketball stadium at Wellington.
- ❖ Sewage scheme for Military Cantonment at Goa
- ❖ 99 Bedded Military Hospital at Goa.
- ❖ Sports Complex at Ahmednagar
- ❖ **Senior Advisor** to MES Chief Engineer, in use of new construction material, Recent trends in construction technology, updating current knowledge on structural steel and concrete.
- ❖ Instrumental in contributing significantly in timely completion of design and drafting of large number of projects.
- ❖ Played significant role in re-certification of ISO 9001:2000 Chief Engineer, Chennai zone office.

Jan88-Apr98 with Corps of Engineers (The Indian Army), Planning, Execution of Operational Works in Border Areas.

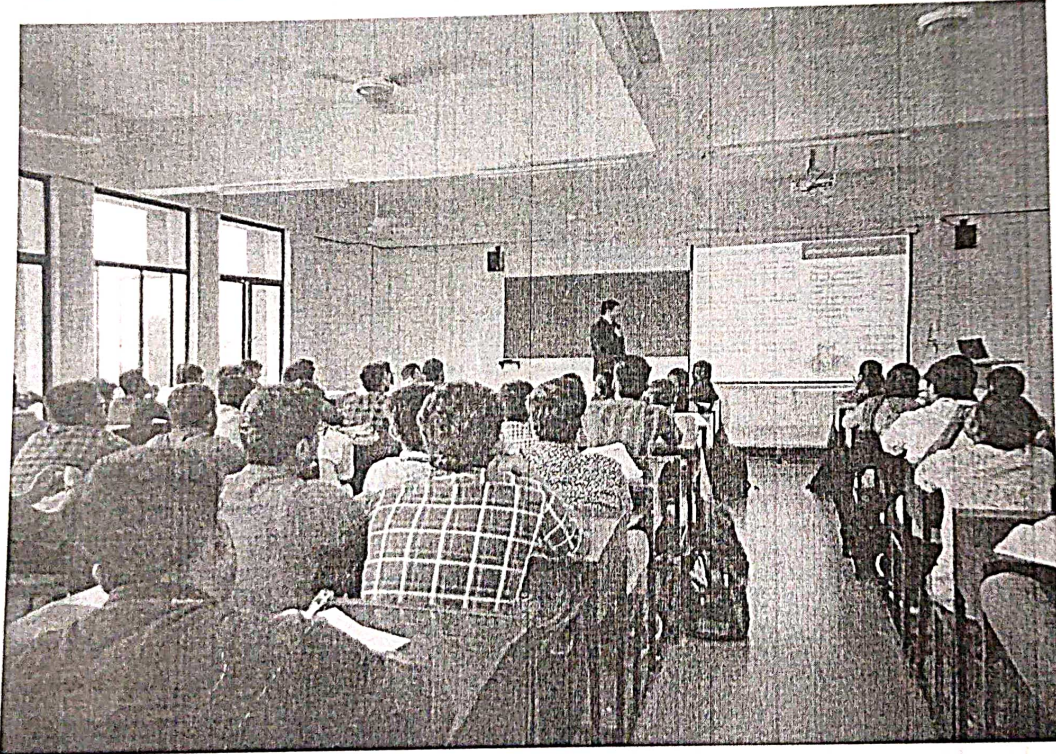
Contributions:

- ❖ Planning Design and Execution of many operational Works in J&K, Rajasthan, Punjab and Sikkim, such as permanent shelters for men and equipments, roads and tracks, border Posts and water supply schemes etc.
- ❖ Engineers support to fighting troops in all types of terrain while serving with an Engineer Regiment

Feb86-Aug86 with IIT Chennai as Project associate, Design of steel structures Under Dr V Kalyanaraman

Contribution:

- ❖ Design of steel truss for factory buildings



Guest Lecture by Dr. Colonel P. Nallathambi.

SRI VENKATESWARA COLLEGE OF ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

GUEST LECTURE ON RCC DESIGN CONCEPTS OF VARIOUS MEMBERS IN A
MULTI-STOREY BUILDING

DATE: 10-03-2020

VENUE: CB 527

S.No	Name	Signature
1.	BHARATH VAZIVARAGAN. T	
2.	Richin John Charly	
3.	R. Aswinderany	
4.	S. Hariharan	
5.	B. Hajithkumar	
6.	S. SARTHIVEL	
7.	M. JothiPrabakaran	
8.	Harikrishnan. S	
9.	DIWAKAR. S	
10.	BHARATH RAJAO. RA	
11.	N. Vamsikrishna.	
12.	R. Gowtham Raj	
13.	S.P. Vigneshwaran	
14.	Mahend Kumar. R	
15.	VINAYAGAMOORTHY. M	
16.	Mohamed Ashraf - I	
17.	M. KISHORE KUMAR	
18.	M. SRIDAM	
19.	C. K. VIKASH	
20.	L. K. VIGNESH	
21.	C. Venkatesh	
22.	Kishore Kumar	

S.No	Name	Signature
23	Haritha Bhavadraj. G	
24	Mallareddy. K.N.S.V.P Akhil	
25	V. Dinkar Deepak	
26	P. PRAVOK HIRDESH	
27	M. Praveen	
28	Yunraj. P	
29	Madhan. M	
30.	V. Vasanthakumar.	
31.	K. Karan	
32	P. Boskar	
33.	K. ARUN	
34	Kishore Mahare	
35	U. Naveen Kumar	
36	S. Trian	
37	K. Aravindan Karupiah	
38	Prabhakaran. V	
39	P. Monika	
40	Kaavya. R	
41	K. Navaneetha	
42.	Priyanka. K	
43.	Mani basathi. S	
44.	Yamni. R	
45.	R. DHIVYALAKSHMI	
46	M. SOUNDHARYA	
47	Sivaranjani. S	
48	G. SIVANI	
49	J. HARITHA	
50 49	Chayan Sardar	



ANNA UNIVERSITY COLLEGE OF ENGINEERING
FEEDBACK FROM THE SPEAKER - GUEST LECTURE

DEPARTMENT : CIVIL ENGINEERING

Name of the Speaker	: Dr. Colonel. P. Nallathambi
Designation	: Managing Director & Structural Consultant
Institution/University/Organisation	: Sakthi Consultancy Pvt Ltd.,
Mobile / E-mail	: 8248165873, nalla.sakthi@gmail.com
Title of the Lecture	: RCC DESIGN CONCEPTS OF VARIOUS MEMBERS IN A MULTISTOREY BUILDING.
Date	: 10-03-2020
Time	: 10.30 - 12.00
Venue	: CB 527
Comments by the Speaker	: 1. Students are very attentive hope they would have been benefited on my lecture Thank you for a good hospitality
Suggestions for improvement	: Many more Guest lectures
Signature of the Speaker	 10/3/2020

Signature of Coordinator

Signature of HOD

Invitation for Guest Lecture as a speaker @ SVCE



SATHYAPRIYA K CVE sathyapriyak@svce.ac.in
to nalla.sakthi, engineering.sakthi09

Sat, Feb 15, 3:44 PM ☆ ↩ ⋮

Dear Sir,

I, Sathyapriya.K, Assistant Professor, Department of Civil Engineering, Sri Venkateswara College of Engineering, Sripurumbudur, extend warm greetings to you.

In department of Civil Engineering, the undergraduate program runs with a strength of 60 students per year and ten faculty from different specialisations. The students would love to have exposure to reality in civil engineering through industrial visits, inplant trainings and guest lectures from eminent professors.

I would like to invite you to deliver a lecture at our department for the third year students (strength 60). Since they have a subject this semester on "Structural Analysis-2", I request you to deliver your insights on any topic concerned with this in the month of February or March as per your convenience.

If you could spend time for us, we would be very grateful. Kindly acknowledge if you could come.

Looking forward for a positive reply from you.

Thanking you

Thanks and Regards,
Sathyapriya .K
Assistant Professor,
Department of Civil Engineering,
Sri Venkateswara College of Engineering,
Sripurumbudur.

Guest lecture at SVCE on 10.03.2020

Inbox x guest lecture x



Nallathambi Ponnusamy

to me

Wed, Feb 26, 7:31 PM

Dear Professor,
Thank you for your invitation.

I would like to talk on "RCC DESIGN CONCEPTS OF VARIOUS MEMBERS IN A MULTI-STOREY BUILDING" for about 90 Minutes.

- 456 PLAIN AND RCC CODE OF PRACTISE.pdf
- BRIEF PROFILE DR COL NALLA 01.08.2019.pdf
- PROFILE OF DR COL NALLATHAMBI 01.08.2019.pdf
- SP34 HAND BOOK ON RCC DETAILING.pdf

Kindly inform the students to go-through IS 456:2000 and SP 34 (Attached)
My Bio data is enclosed for your reference.

Dr. Colonel. Nallathambi P
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 Principal Structural Consultant &
 Managing Director
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 Mail ID : nalla_sakthi@gmail.com
 Web Site : www.sakthiconsultancy.com

4 Attachments

- 456 PLAIN AND RC...
- BRIEF PROFILE DR ...
- PROFILE OF DR CO...
- SP34 HAND BOOK ...

