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**Invitation - Webinar on Pile Design and Construction Practice for Metro Projects -reg**

2 messages

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**HOD Civil SVCE** <hodce@svce.ac.in>

Fri, Apr 9, 2021 at 2:22 PM

To: Principal SVCE &lt;principal@svce.ac.in&gt;, HODs Group &lt;hod@svce.ac.in&gt;, Faculty Group &lt;svcefaculty@svce.ac.in&gt;

Cc: ARUN PRAKASH &lt;arunprakash@svce.ac.in&gt;

Dear Professors

On behalf of our Department of Civil Engineering , I am pleased to invite you all for the Webinar on **"Pile Design and Construction Practice for Metro Projects "** on **16th April 2021 (Friday) between 10 to 11.00 am.**

Herewith I have attached the invitation for the same.

Faculty Coordinator: Mr.S.Hariswaran, AP/Civil Engg.

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Thanks and Regards

**Dr.R.Kumutha****Professor and Head**

Department of Civil Engineering

Sri Venkateswara College of Engineering


Sriperumbudur - 602117

TN, India

Ph: 9894125626

[My Google Scholar Profile](#)[My Scopus Author Profile](#)

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 **Webinar on 16th April 2021 -Dr.BP.Naveen.pdf**

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**HARISWARAN S** <hariswarans@svce.ac.in>

Mon, Apr 12, 2021 at 10:08 AM

To: civil-department-2017-21@googlegroups.com, civilengineers2018@googlegroups.com, civilengineering2019@googlegroups.com

Dear Students,

Do registration in the webinar to enhance the knowledge on "Metro Project construction practices".

Registration Link available in the poster. PFA

----- Forwarded message -----

From: **HOD Civil SVCE** <hodce@svce.ac.in>

Date: Fri, Apr 9, 2021 at 2:22 PM

Subject: Invitation - Webinar on Pile Design and Construction Practice for Metro Projects -reg

To: Principal SVCE &lt;principal@svce.ac.in&gt;, HODs Group &lt;hod@svce.ac.in&gt;, Faculty Group &lt;svcefaculty@svce.ac.in&gt;

Cc: ARUN PRAKASH &lt;arunprakash@svce.ac.in&gt;

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Herewith I have attached the invitation for the same.

[Quoted text hidden]

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Best Regards,

**S.Hariswaran** M.E., (Ph.D)., MISTE., AMIEI.,MIGS.,

Assistant Professor,

Department of Civil Engineering,

SVCE, Sriperumbudur, 602117,

Tamil Nadu, India

[hariswarans@svce.ac.in](mailto:hariswarans@svce.ac.in)

Mobile : 9965028892


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To view this discussion on the web, visit <https://groups.google.com/d/msgid/civilengineering2019/CAM8kXTN6C6YWzesGCebe0rkX8jTOWOUUpv8YLvAhUfPTW-pp9sg%40mail.gmail.com>.

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 **Webinar on 16th April 2021 -Dr.BP.Naveen.pdf**

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# SRI VENKATESWARA COLLEGE OF ENGINEERING

(an Autonomous Institution affiliated to Anna University, Chennai)

Pennalur, Sriperumbudur Tk - 602117

Department of Civil Engineering



## Report of the Webinar on “Design and Construction Practice for Metro Projects”

Date : 16th April 2021, Friday  
Time : 10:00 A.M – 11.00 A.M  
Mode : Online through Google Meet  
Meeting Link : <https://meet.google.com/zzd-stpz-gxd>

### Speaker

Dr.B.P.Naveen  
Associate Professor & Head  
Amity University, Haryana

### Convener & Organizing Secretary

Dr.K.Kumutha  
Professor & Head / Civil  
Sri Venkateswara College of Engineering, Sriperumbudur

### Coordinator

Mr.S.Hariswaran  
Assistant Professor / Civil  
Sri Venkateswara College of Engineering, Sriperumbudur

Target Audience	: UG Students, PG Students & Faculty Members
Number of Participants Benefited	: <b>67</b>
UG Students	: 53
PG Students	: 04
Faculty Members	: 09
Industrial Persons	: 01

# **BROCHURE**



**SVCE** | Sri Venkateswara  
College of  
Engineering



## **SRI VENKATESWARA COLLEGE OF ENGINEERING**

An Autonomous Institution – Affiliated to Anna University  
Pennalur, Sriperumbudur Tk. – 602117, Tamil Nadu

### **DEPARTMENT OF CIVIL ENGINEERING**

cordially invites you for a

### **Webinar**

on

### **“Pile Design and Construction Practice for Metro Projects”**

Date: 16<sup>th</sup> April 2021, Time: 10.00 am to 11.00 am



#### **Dr.B.P.Naveen**

**Associate Professor & Head  
Department of Civil Engineering  
Amity University, Haryana**

Registration link : <https://forms.gle/XfZmdcGVRhnLc8nW9>

**Faculty Coordinator**

**Mr.S.Hariswaran**

**Assistant Professor / Civil**

**Convenor & Organising Secretary**

**Dr.R.Kumutha**

**Professor & Head / Civil**



## SPEAKER PROFILE



Dr. B.P.Naveen is currently working as a Head & Associate Professor in the Department of Civil Engineering at Amity University, Haryana. He completed his B.E (Civil Engineering) from University Visvesvaraya College of Engineering (UVCE), Bangalore., M.Tech (Geotechnical Engineering) from National Institute of Technology Karnataka, Surathkal, M.S (Geotechnical Engineering), Ph.D. & Postdoctoral(Geotechnical Engineering) from Indian Institute of Science, Bangalore.

Dynamic, committed, and results-driven professional, with over 15years of diverse and progressive experience in the field of Geotechnical Engineering, Geo-Environmental Engineering, Metro works, Waste Management, and Ground Improvement. His work has been recognized by Aqua Foundation's Academic Excellence Award for Solid Waste Management in 2016 and the Oasys Project of the year -2016. He was also a recipient of the ISSMGE Foundation Award, Centre for International Co-operation in Science (CICS), Young Researcher and Scholar Icon-2017 Award, Young Educator, and Scholar Award-2017 & 2018, IEI Young Engineers Award, Professional Excellence Award, Sir M Visvesvaraya Award and recipient of many other awards. He also reviewed papers for many International Journals and Conferences. He also has many articles in local newspapers & websites on topics useful for societies.

He is the Chief Editor of one international Journal in his area of research. He has also collaborated on research with different groups and research centers during his academic career. He has overseas working experience having worked in Kenya, Japan, USA.

## **BRIEF REPORT ON WEBINAR**

The webinar started with a welcome note by **Dr.R.Kumutha**, Professor & Head, Department of Civil Engineering, SVCE and the introduction of the speaker to the Participants by **Mr.S.Hariswaran**, Assistant Professor, Department of Civil Engineering, SVCE. **Dr.B.P.Naveen** outlined the basic concepts of Metro project construction. He described about the different components of Metro projects and procedure of site investigation. He highlighted the importance of site investigation for bridge and the components to be considered while designing pile foundation. He explained the different methods of soil investigations in detail with pictorial presentation. He outlined the different design codes related to pile design and soil investigations. **Dr.B.P.Naveen** shared the case study to make the participants to understand the field test procedure in the better way.


The following queries were raised by participants and which were answered by **Dr.B.P.Naveen**



1. How to investigate black cotton soil?
2. Up to which depth we have to investigate for bridge pier?
3. Which method of investigation will be economical?
4. How to decide the route for metro stations?
5. Weather earthquake load considered while designing the bridge pier for metro projects?


The Session ended with a vote of thanks delivered by **Mr.S.Hariswaran**, Assistant Professor / Civil Engineering. The participants appreciated the webinar through their feedback.

## SNAPSHOTS OF THE WEBINAR

**PILE DESIGN AND CONSTRUCTION PRACTICE FOR METRO PROJECTS**






 **Dr. Naveen BP Ph.D. (IISc)**  
Associate Professor & Head,  
Department of Civil Engineering 




HOD Civil SVCE

**PILE DESIGN AND CONSTRUCTION PRACTICE FOR METRO PROJECTS**



 **Dr. Naveen BP Ph.D. (IISc)**  
Associate Professor & Head,  
Department of Civil Engineering 



Dr. Naveen BP

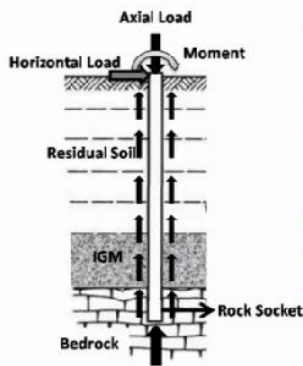
## Presentation Outlines

1. Introduction
2. Construction practices
3. Field Testing and Numerical Simulation
4. Case Studies



Dr. Naveen BP

## Issues in Large Diameter Piles Foundations in Residual Soils



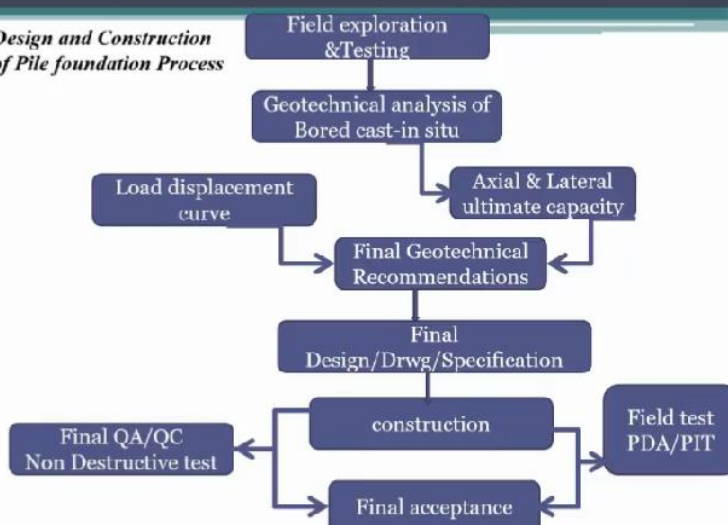
- Identifying the transition between the sub-strata layers.  
Sometimes IGM can be mistaken for bedrock.
- At what depth should the pile be terminated?
- How large should the diameter of the pile be?  
India: 1.6m Abroad: Upto 4-4.7 m
- Should one socket in IGM or rock?
- How deep should the socket should be?
- Testing techniques developed, proven for small dia piles only
- Predicting Load-Displacement relationships
- Know-how on grouting to improve load bearing capacity.

\*Intermediate geometrical(IGM) capacity.



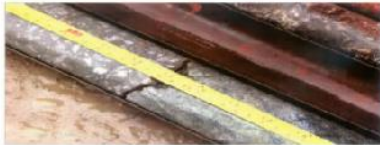
Dr. Naveen BP

## Design and Construction of Pile foundation Process



Dr. Naveen BP

**ROUND SHANK CHISEL CORE BARREL WITH CORE CATCHER**



**Pile Toe-Rock Contact Verification by Contact Coring**



Dr. Naveen BP



**Method At Monorail Project-Mumbai**

**L&T Sites**

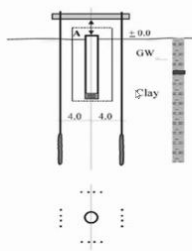


Dr. Naveen BP



Dr. Naveen BP is presenting

**Field pile load test results of Sommer & Hambach (1974).**



Layout of 16anchors in load test  
Fig: Schematic of load test

- The reaction beam was supported by 16 anchors (Fig).
- The loading system consists of 2hydraulic jacks working against a reaction beam.
- The loads were applied in increments and maintained constant till the settlement rate was negligible.
- The pile diameter of 1.3m & length of 9.5m
- Load cells were installed at the pile base to measure the loads carried directly by pile base.
- The upper 4.5m subsoil consist of silt followed over consolidated clay to great depths.
- The ground water table is about 3.5m below the ground surface.

Webinar - Pile Design and Construc...

(72) 76

Mute all Add people Host controls

IN CALL

- HARISWARAN S (You)
- AAKASH CVE
- ABISHEK MURALI CVE
- AJAY KRISHNAMURTHY...
- Arshiya Arvind

More options



## LIST OF PARTICIPANTS

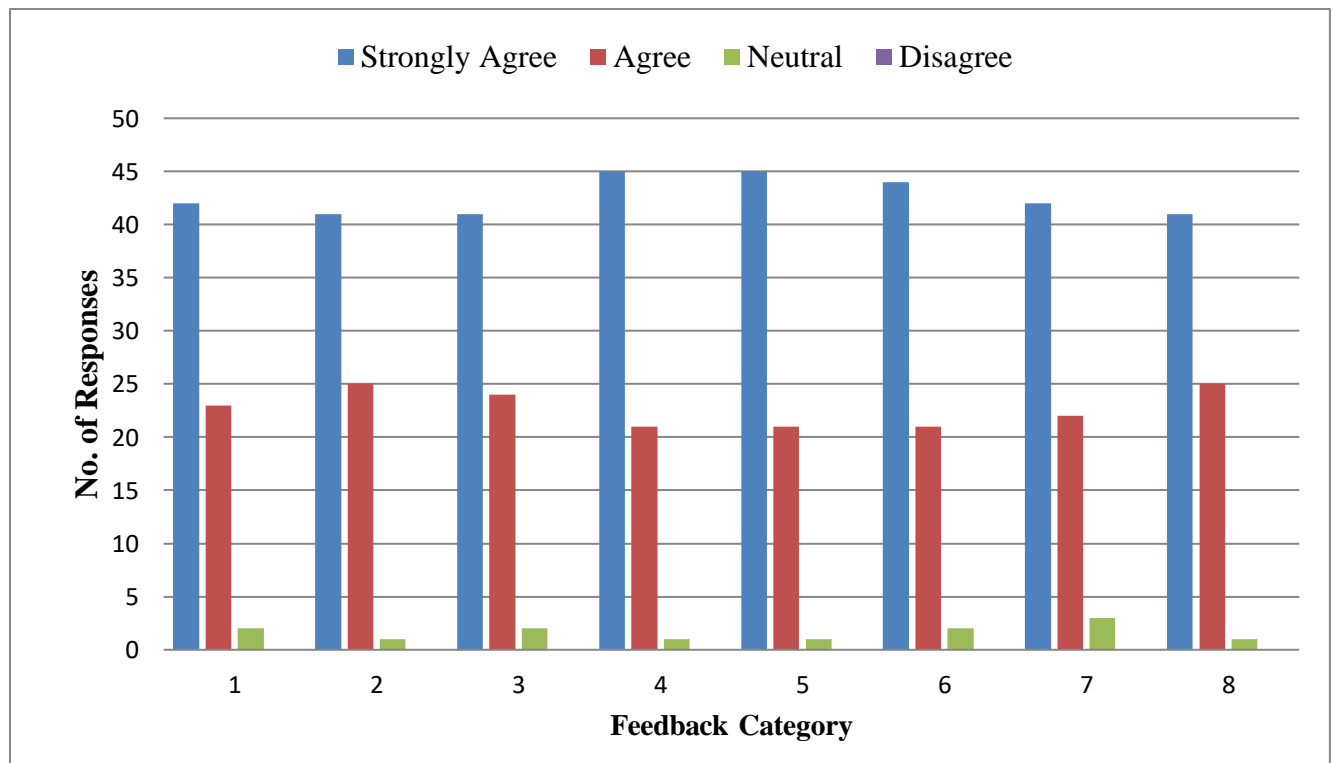
Sl No.	Name of the Participant	Name of the Institution / Industry	Location	Category
1	DIRAVIA BALAN S	Sri Venkateswara College of Engineering	Sriperumbudur	Faculty
2	RANJITHKUMAR M	Park College of Technology	Coimbatore	Faculty
3	KALAIVANNAN R	Sri Venkateswara College of Engineering	Sriperumbudur	Faculty
4	RAMESH BABU SHANMUGAM	Sri Venkateswara College of Engineering	Sriperumbudur	Faculty
5	NIKHAR PANDYA	B & B Institute of Technology	V V Nagar	Faculty
6	M.JENANI	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
7	SAMUEL JAMES	Hindustan Institute of Technology & Science	Chennai	Faculty
8	HEMALATHA R	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
9	LALEETH KUMAR D	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
10	NITIN KUMAR SAMAIYA	Jaypee University of Engineering and Technology, Guna	Guna	Faculty
11	MUNIRAJ M	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
12	ABIRAMI R	Aarupdai Veedu Institute of Technology	Chennai	Faculty
13	HARIBABU S	Panimalar Engineering College	Chennai	Faculty
14	VIKASH M	Chadalawada Venkata Subbaiah College of Engineering	Tirupathi	PG Student
15	PRAVEEN KUMAR V	Panimalar Engineering College	Chennai	UG Student
16	KAVINSELVA P	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
17	VENGADESH V	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
18	BRITHISHA S	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
19	AKRIITHA K	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
20	SRIRAM L	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
21	R.HUMSA VARDHANA	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
22	ARCHANA GIRISH TANAWADE	Vishwakarma Institute of Information Technology,Pune	Pune , Maharashtra , India	Faculty

23	G.HARSHAVARTHANI	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
24	S.GOWTHAM	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
25	BHARANIDHARAN. B	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
26	GOGULA CHEZHIAN.N	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
27	M.SOUNDHARYA	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
28	MD SUJAAT SHOUKAT	Birla Institute of Technology, Mesra	Patna	UG Student
29	PRABHAKARAN V	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
30	ARVIND K	Cookscape Home Interior	Chennai	Industry Personnel
31	SIDDHARTH J U	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
32	RUBY FREYA	Sri Venkateswara College of Engineering	Sriperumbudur	Faculty
33	HARIHARAN.V	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
34	B.SAKTHI RAGAVAN	Vellore Institute of Technology	Vellore	PG Student
35	HEMALATHA VEERASAMY	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
36	A.VIGNESH	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
37	A.JENISHA	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
38	THIYAGESH.L	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
39	MR.A.SATHESH KANNA	Sri Angalamman College Of Engineering And Technology	Trichy	Faculty
40	MR. KISHALAY RAJ	Birla Institute of Technology, Mesra	Ranchi Jharkhand	UG Student
41	SENTHAZHAL T P	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
42	KARTHICK S	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
43	MONISHA. Y	Panimalar Engineering College	Chennai	UG Student
44	NAVANEETHA K	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
45	GOPINATH A V	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
46	G.SIVANI	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student

47	RAJASEKARAN E	Valivalam Desikar Polytechnic College	Nagapattinam	Faculty
48	MUHAMMED ASHARUDHEEN . M	Jawaharlal College of Engineering and Technology	Palakkad.Kerala	PG Student
49	RAMANAN.B.B	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
50	HAQSALIN MECANO.K	Jeppiaar Engineering College	Chennai	UG Student
51	KEERTHI VAASAN R	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
52	AAYSHA FATHIMA M Y	Jeppiaar Engineering College	Chennai	UG Student
53	BHARATH VAZHVARASAN T	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
54	RAJARAJAN V	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
55	SANJEEV KUMAR SINGH	Faculty of Engineering and Technology, University of Lucknow	Lucknow	UG Student
56	ARSHIYA AS	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
57	G.SARAVANAPANDI	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
58	COUMARAN C	Government Polytechnic College for Women's	Lawspet	Faculty
59	TILAQ ROHITH T M	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
60	NAVEEN S	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
61	PRE ENGINEERED BUILDINGS	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
62	J.HARITHA	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
63	RAAGHUL R	Jeppiaar Engineering College	Chennai	UG Student
64	ROHIT V	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
65	KIRAN KUMAR PON	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student
66	A D THIRUMAL VIJAI	Misrimal Navajee Munoth Jain Engineering College	Thoraipakkam	Faculty
67	LOGESHWARI R	Sri Venkateswara College of Engineering	Sriperumbudur	UG Student

## SUMMARY OF FEEDBACK

Total Number of Participants = 67					
Feedback Statement		Strongly Agree	Agree	Neutral	Disagree
1	<b>The session delivered the information I expected to receive.</b>	42	23	02	00
2	<b>The subject matter was presented effectively.</b>	41	25	01	00
3	<b>The pace and duration of the webinar was satisfactory.</b>	41	24	02	00
4	<b>The resource person is knowledgeable.</b>	45	21	01	00
5	<b>The resource person presented the information in a clear and logical manner.</b>	45	21	01	00
6	<b>Sufficient time was given for interaction.</b>	44	21	02	00
7	<b>The webinar was well organized.</b>	42	22	03	00
8	<b>As a result of this webinar, I gained new knowledge.</b>	41	25	01	00



## **Additional Comments / Feedback from Participants**

- Very Informative session
- Session was good and explained with neat sketches
- Excellent and informative Presentation
- I was so helpful in knowing about piles and also about metro construction
- It's very useful to our core and to gain more knowledge
- Informative Session. Expecting good session like this in future

## SAMPLE PARTICIPATION CERTIFICATE

 **SRI VENKATESWARA COLLEGE OF ENGINEERING**  
(an Autonomous Institution affiliated to Anna University, Chennai)  
Sriperumbudur - 602117

DEPARTMENT OF CIVIL ENGINEERING  

Certificate of Participation

This is to Certify that  
**Mr.R.KALAIVANNAN**

has participated in the Webinar on **“Pile Design and Construction Practice for Metro Projects”**, delivered by **Dr.B.P.Naveen**, Associate Professor & Head, Department of Civil Engineering, Amity University, Haryana, India held on **16th April 2021**.

  
Coordinator  
Mr.S.Hariswaran  
Assistant Professor / Civil

  
Convener and Organising Secretary  
Dr.R.Kumutha  
Professor & Head / Civil

Prepared By



**Mr.S.Hariswaran**

(AP / Civil)

Coordinator

Approved By



**Dr.R.Kumutha**

(Prof. & Head / Civil)

Organizing Secretary & Convener