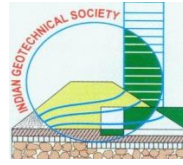




KKR & KSR INSTITUTE OF TECHNOLOGY & SCIENCES

(Accredited by NBA | "A" Grade by NAAC | Approved by AICTE, New Delhi | Affiliated to JNTUK, Kakinada)
Vinjanampadu (Vil), Vatticherukuru (Md), Guntur (Dt), A.P. India -17.



IGS-STUDENT CHAPTER

Engineering Solutions for Foundations of Structures on Black Cotton Soils

By

Dr.G.Venkatappa Rao,

(Former Professor & Head, Department of Civil Engg, IIT Delhi)

Visiting Professor in Civil Engineering, Indian Institute of Technology Gandhi Nagar, Gujarat,

Chairman, Geosynthetic Technology Advisory Services, Jaipur.

Organized by

Department of Civil Engineering

 <p>Webinar on</p>  <p>"Engineering Solutions for Foundations of Structures on Black Cotton Soils"</p> <p>Organized by IGS student chapter, KKR & KSR Institute of Technology and Sciences (KITS), Vinjanampadu, Guntur.Dist, Andhra Pradesh</p> <p>SPEAKER</p>  <p>Dr.G.Venkatappa Rao, (Former Professor & Head, Department of Civil Engg, IIT Delhi) Visiting Professor in Civil Engineering, Indian Institute of Technology Gandhi Nagar, Gujarat, Chairman, Geosynthetic Technology Advisory Services, Jaipur.</p> <p>JOIN ZOOM MEETING JULY • 25 • 2020</p> <p>Meeting ID: 880 1629 9066 11:00AM INDIA Zoom Password: 638523</p> <p>54th Webinar of IGS Guntur Chapter.</p>	<p>Engineering Solutions for Foundations of Structures on</p> <p>BLACK COTTON SOIL</p> <p>Dr.G.Venkatappa Rao, Chairman, Geosynthetic Technology Advisory Services, Jaipur Head, Geosynthetic Division, Landmark Material Testing and Research Laboratory, Jaipur</p>  <p>TOPIC</p>
---	--

e-POSTER

The IGS- Student Chapter of Department of Civil Engineering has conducted a webinar on Engineering Solutions for Foundations of Structures on Black Cotton Soils on 25th July 2020.

This lecture was delivered by Dr.G.Venkatappa Rao, (Former Professor & Head, Department of Civil Engg, IIT Delhi) Visiting Professor in Civil Engineering, Indian Institute of Technology Gandhi Nagar, Gujarat, Chairman, Geosynthetic Technology Advisory Services, Jaipur.

In this webinar lecture more than 100 participants have attended from various institutes and industry.

In his presentation Dr.Rao explained about characteristic behavior of clays. He mainly emphasized on lime stabilized soils. He shared his studies performed by him regarding clay mineralogy. He also demonstrated case studies where Geo-Synthetics and Geo-cells were used.

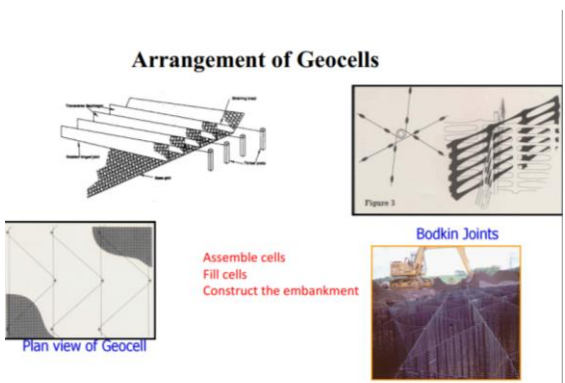
Approach Embankment for Bridge across Vasista Godavary at Chinchinada, A.P. (N H 214)	
Length of approaches on East Godavari side	: 1.15 Kms.
Length of approaches on West Godavari side	: 8.00 kms.
High Embankment portion	: 350 M on either side
Height of Embankment	: Maximum 12 M Minimum 2 M
Gradient	: 1 in 35
Side Slopes	: 2 H : 1 V with 2.50 M ledge at each 4 M height
Foundation soils	: Black cotton soils (soft to stiff)
Embankment fill soil	: Sand / Silty Sand
Slope Protection	: Erosion control Rolled blanket with coir.
Formation width	: 12 M
Base width	: 58 M (maximum)

25 July 2020

Foundations on Black Cotton Soil G V RAO

52

Arrangement of Geocells



Plan view of Geocell

Bodkin Joints

Assemble cells
Fill cells
Construct the embankment

25 July 2020

Foundations on Black Cotton Soil G V RAO

56

The webinar took place in online platform. About 100 participants attended the webinar After the lecture Dr.Rao answered a few questions posted by the participants.