



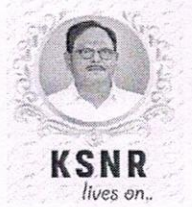
# K.S.R.M. COLLEGE OF ENGINEERING

(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India- 516 003

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

An ISO 14001:2004 & 9001: 2015 Certified Institution



Date: 07.07.2021

To

The Principal,  
K.S.R.M.College of Engineering,  
Kadapa.

Respected Sir,

**Sub:** KSRMCE - (Civil Engineering Department) Permission to conduct a Webinar on “Webinar on Importance of Geology” – Req –Reg.

It is being brought to your kind notice that, With reference to the cited, the Civil Engineering Department is planning to conduct a Webinar on “Importance of Geology” for B.Tech Civil students on 10<sup>th</sup> July, 2021 in Online mode from 11.15 PM - 12.15 PM. In this regard I kindly request you to grant permission to conduct the webinar.

Thanking you Sir,

Yours Faithfully,

*Ch. S.K.*

Ch. Santosh Kumar  
Asst. prof in Civil dept.

*Forwarded to principal sir*

*YPL*

*Permitted*  
*U.S.S. MMTK*  
*07/07/2021*





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07-07-2021

## Circular

All the IV Year B. Tech students are here by informed that Department of Civil Engineering is going to conduct a Webinar on “**Importance of Geology**” on 10<sup>th</sup> July, 2021 in Online mode from 11.15 AM – 12.15 AM. Interested students may register their names with the Coordinator before 08<sup>th</sup> November 2021.

### **Resource Person:**

DVS Narasimha Rao,  
Associate Professor,  
Gurunanak Institution Technical Campus,  
HYDERABAD

For any queries Contact,

### **Coordinators**

Mr. Ch. Santosh Kumar, Assistant Professor in CED

  
HoD  
Head

Department of Civil Engineering  
K.S.R.M. College of Engineering  
(Autonomous)  
KADAPA - 516 003. (A.P.)



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**KSNR**  
lives on..

## DEPARTMENT OF CIVIL ENGINEERING

WEBINAR ON

### Importance of GEOLOGY in Civil Engineering

SPEAKER

**D.V.S Narasimha Rao**

M Sc, M.Phil in Geology, (Ph. D)

Associate Professor,

Guru Nanak Institutions Technical Campus, Hyderabad.

DATE & TIME

10-07-2021, @ 11 : 15AM TO 12 : 15 PM

Coordinator : **Sri. Ch. Santosh Kumar,**

Assistant Professor,

Dept. of Civil Engineering, KSRMCE

Zoom meet link

[https://us02web.zoom.us/j/81177222760?](https://us02web.zoom.us/j/81177222760?pwd=ZkphallrVOY2Zm1CSFBoeU5aRmdDUT09)

[pwd=ZkphallrVOY2Zm1CSFBoeU5aRmdDUT09](https://us02web.zoom.us/j/81177222760?pwd=ZkphallrVOY2Zm1CSFBoeU5aRmdDUT09)

**VAISA**  
AD AGENCY  
9848875439



ksrmceofficial

**Dr. N. Amaranath Reddy**  
HoD

**Dr. V.S.S. Murthy**  
Principal

**Prof. A. Mohan**  
Director

**Sri. K. Chandra Obul Reddy**  
Management Member

**Smt K. Rajeswari**  
Correspondent,  
Secretary, Treasurer

**Sri K. Madan Mohan Reddy**  
Vice-Chairman

**Sri K. Raja Mohan Reddy**  
Chairman





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DEPARTMENT OF CIVIL ENGINEERING

**Webinar on Importance of Geology**

**In Civil Engineering**

10<sup>th</sup> July 2021

**REPORT**

**Speaker:** Sri. DVS NARASIMHA RAO, Associate Professor & Ph.D. pursuing in Gurunanak Institution Technical Campus.

**Importance of Geology in Civil Engineering:**

**Geology** provides knowledge about the site used in the **construction** of buildings, dams, tunnels, tanks, reservoirs, highways and bridges. **Geology** helps to identify area susceptible to failures due to **geological** hazards such as earthquake, landslides, weathering effects, etc. Civil Engineers use geologist to examine rocks for important metals, oil, natural gas and ground water.

**The theme of the Webinar:**

**Geology Theme** is split into the following sub-**themes**: **Geology**: provides basic knowledge about the physical properties and composition of **geologic** materials (rocks and sediments), their structure and their age as depicted in **geological** maps, as well as land forms.





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## DEPARTMENT OF CIVIL ENGINEERING

### WEBINAR ON

## Importance of GEOLOGY in Civil Engineering

### SPEAKER

**D.V.S Narasimha Rao**

M.Sc, M.Phil in Geology, (Ph. D)  
Associate Professor,  
Guru Nanak Institutions Technical Campus, Hyderabad.

### DATE & TIME

10-07-2021, @ 11 : 15AM TO 12 : 15 PM

Coordinator : **Sri. Ch. Santosh Kumar,**  
Assistant Professor,  
Dept. of Civil Engineering, KSRMCE

### Zoom meet link

<https://us02web.zoom.us/j/81177222760?pwd=ZkphalIrV0Y2Zm1CSFB0eU5aRmdDUT09>



[ksrmceofficial](#)

Dr. N. Amaranath Reddy  
HoD

Dr. V.S.S. Murthy  
Principal

Prof. A. Mohan  
Director

Sri. K. Chandra Obul Reddy  
Management Member

Smt K. Rajeswari  
Correspondent,  
Secretary, Treasurer

Sri K. Madan Mohan Reddy  
Vice-Chairman

Sri K. Raja Mohan Reddy  
Chairman

**Poster of the event:** Webinar on Importance of Geology in Civil Engineering.

### Zoom link:

<https://us02web.zoom.us/j/81177222760?pwd=ZkphalIrV0Y2Zm1CSFB0eU5aRmdDUT09>

**Google link:** <https://meet.google.com/eaz-wtzx-pkc>

### About the Speaker:

Sri. DVS Narasimha Rao Working as Associate Professor since 10 years in Gurunanak Institution Technical Campus, HYDERABAD. His Qualifications are MSc, M.Phil. In Geology, and Perusing Ph.D.

He Worked as Geologist/Resource Person around 14 years. He published around 10 papers in International Research Journals. He attended Workshop on Remote Sensing and GIS at JNTUH. He attained First Rank at Common Entrance Test in Geology at Kakatiya University, Warangal.

He awarded Best Teacher Award at 2014 in Gurunanak Institutions Technical Campus. He worked on projects based on Forest Evaluation Survey, Remote Sensing Projects, Soil Survey, and Watershed development Projects at GEMS,RSI Companies Undertaking Govt.Projects. He works as Photogrammetric for around 4 years at Navya Group.



### **The Sequence of the Webinar**

The Webinar was arranged by Department of Civil Engineering for the B.Tech. Students and faculty of the department. The venue was organized thorough virtual mode using Zoom meeting pro application purchased by Department of Civil Engineering, KSRMCE. The webinar was planned on 10<sup>th</sup> July, 2021 in morning session from 11 AM to 12.45 PM and the sessions were hosted by Dr. Amaranath Reddy (HoD), Sri. Ch. Santosh Kumar. A total of 75 students and some of the faculty members of Department of Civil Engineering were actively participated in the webinar.

#### **Welcome speech:**

Sri. Ch. Santosh Kumar (Coordinator of the event), Assistant Professor, Dept. of Civil Engineering, KSRMCE expressed a very warm welcome to the HoD, faculty and students of the Civil Engineering Department. The coordinator introduced the guest of honors to the gathering; the brief of their education and professional experiences was read for the audience.

#### **HoD's words:**

Dr. N. Amaranath Reddy, HoD & Associate Professor of the Dept. of Civil Engineering, KSRMCE addressed the gathering by welcoming the Guest DVS.NARASIMHA RAO to the event. HoD shared about the dedication towards work and capabilities of speakers as his students and how they evolved to stand in this position by continuous improvement.

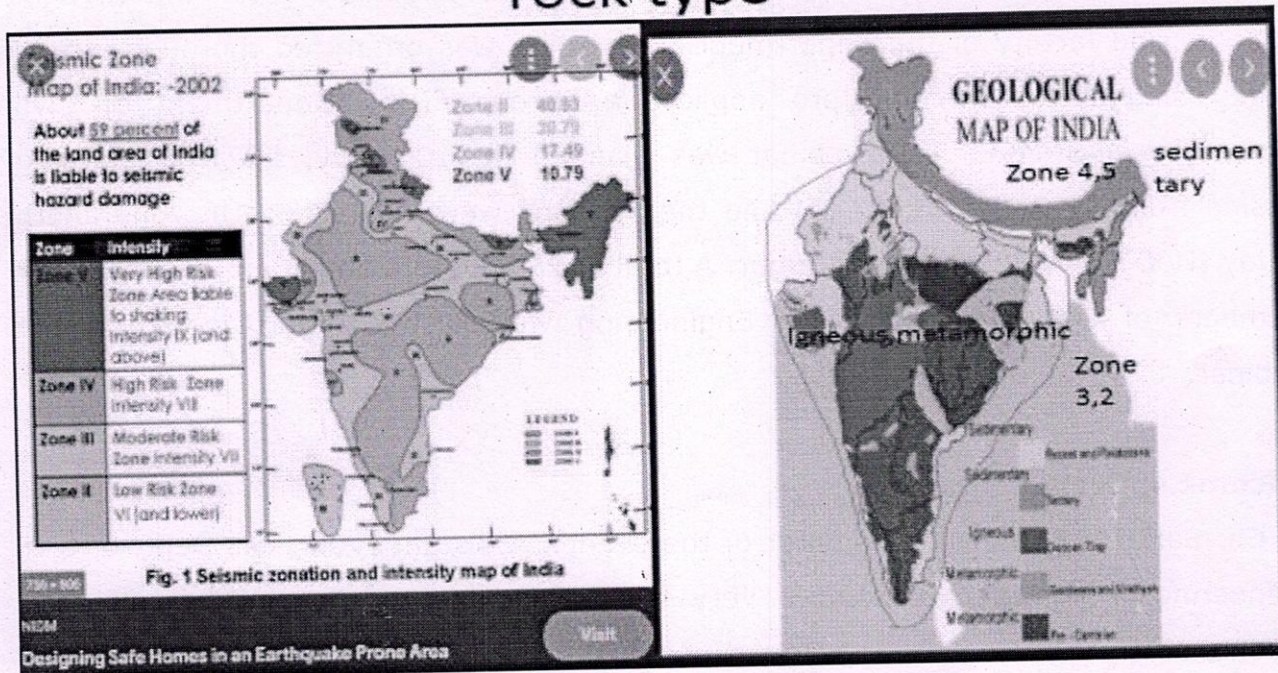
#### **Presentation by the Speaker:**

##### **Session (11 AM to 12.45 PM, 10<sup>th</sup> July, 2021):**

The speakers explained one day plan of action of this webinar. Session is majorly concentrated on origin of Importance of Geology in Civil Engineering. It covers the importance of Geology in various engineering fields. This session gave brief idea on Where the Minerals and Rocks were found in India and how it is useful. The speakers explained about Earth Quake Zones Comparison with Rock type which are essential before going to work. The session ended with the explanation on Zone of intermittent saturation and unsaturated zone.



# Earthquake zones Comparision with rock type



Plan of Webinar presented by speakers

## BASALT ROCK AS FUTURE REPLACE OF STEEL IN CONSTRUCTION

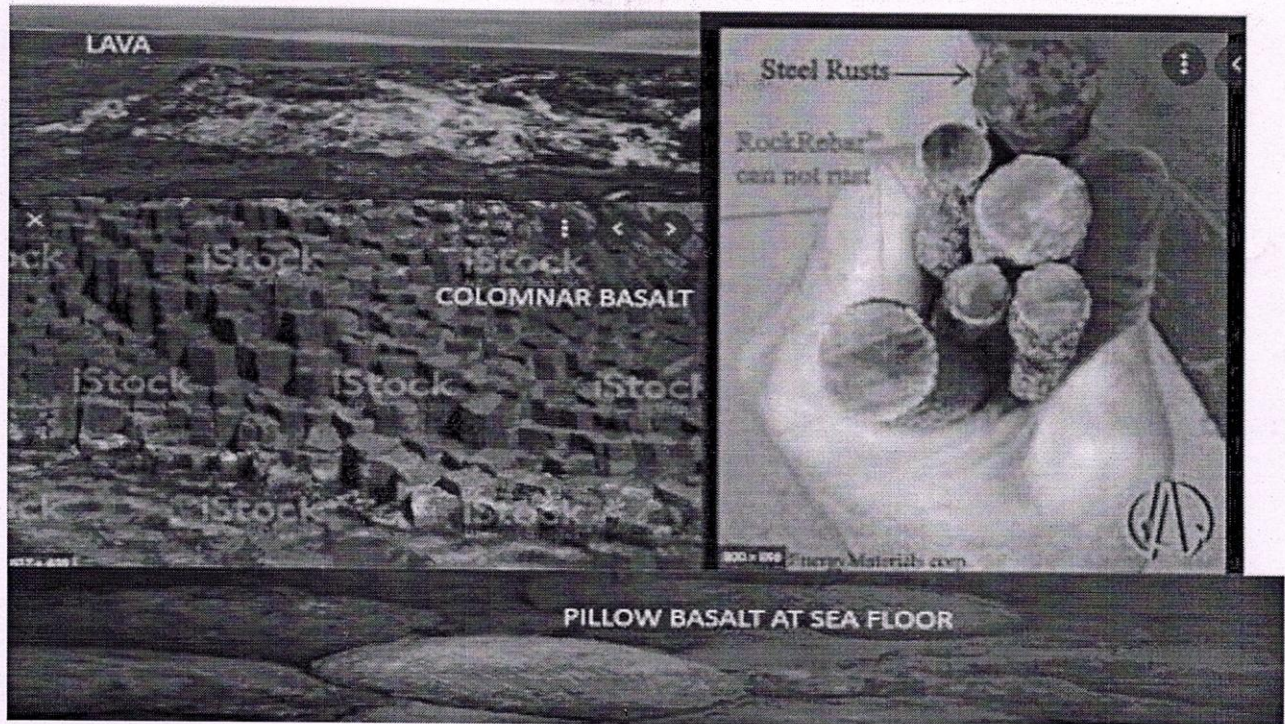
basalt-rebar.com

Basalt Rebar reinforcement is an alternative to steel and fiberglass for reinforcing concrete

Visit



Basalt as lava, in sea for millions of years rusted?



## GEOLOGICAL PROFILE COUNTS IN CIVIL ENGINEERING

SIMPLON TUNNEL-SWITZ (BRIG) TO ITALY (CHAISSO)

- SIMPLON TUNNEL-SWITZ (BRIG) TO ITALY (CHAISSO), RAIL TUNNEL, 19.3 KM LONG PASSING THROUGH GNEISS, LST, SHALES 2KM OF ALPS

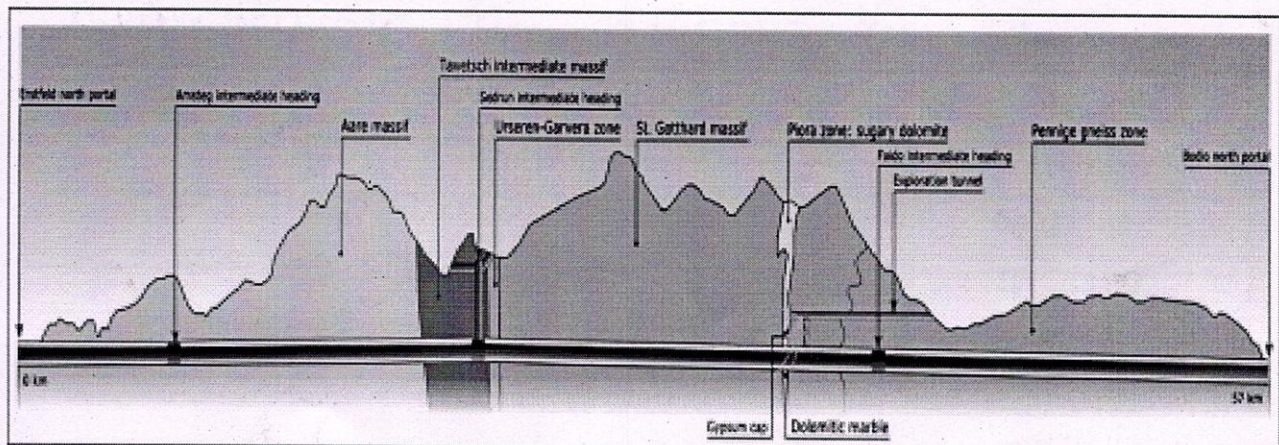
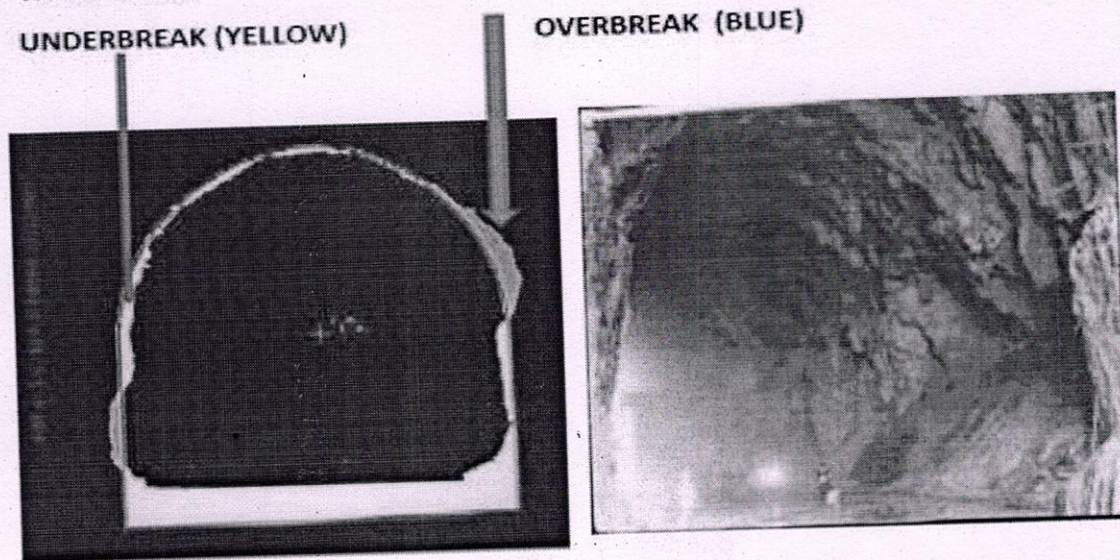




IMAGE PROCESSING TECHNIQUES CAN BE USED TO MEASURE OVERBREAK, AS IN THIS EXAMPLE FROM THE MEXICAN TUNNELS. THE MEASURED TUNNEL PROFILE IS OVERLAIN ONTO THE DESIGN PROFILE. OVERBREAK (BLUE) AND UNDERBREAK (YELLOW) ARE DEFINED OUTSIDE OF THE OF THE SPECIFIED TOLERANCE (GREEN) OF THE DESIGN..



OVERBREAK, OR UNDERBREAK STRUCTURAL RISK DUE TO GEOLOGY AND LOSS FOR CONTRACTOR?

- **Overbreak** of rock beyond the designed periphery of a **tunnel** is a structural risk which more than occasionally results in filing of a claim by the contractor. It is difficult to estimate the **overbreak** risk at the time of tender with sufficient degree of accuracy because of the uncertainty associated with the geology, construction ...



## IMPACT OF STRUCTURAL GEOLOGY IN CE

Rock quality depends on joint characteristics

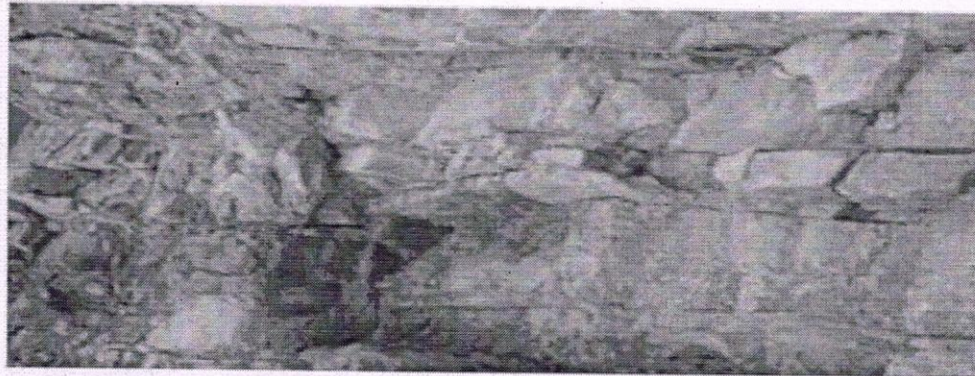
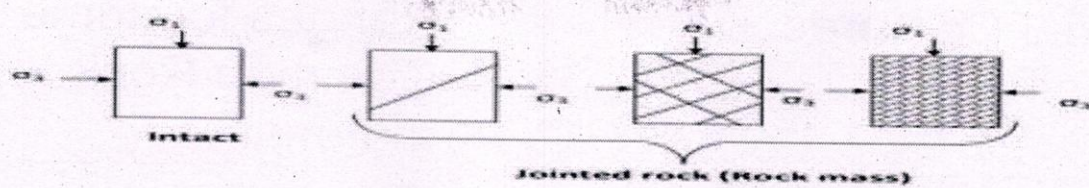


Figure 1.2: A typical view of rockmass encountered in the field

### Rock Mass Rating (RMR)

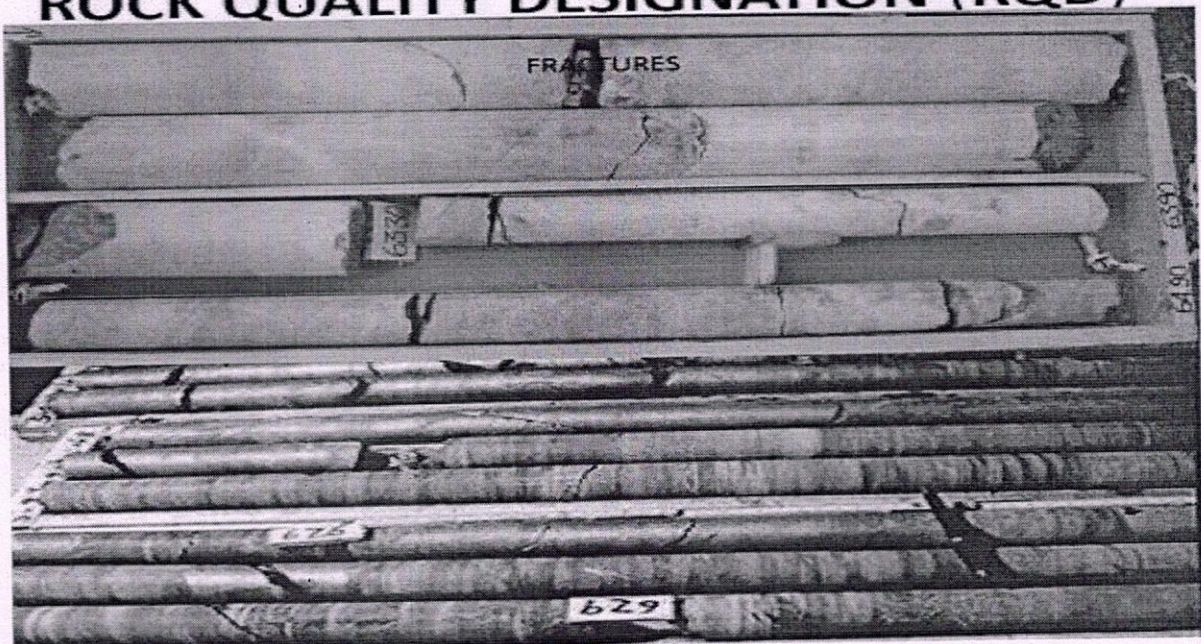
- The following six parameters are used to classify a rock mass using the RMR system
- Uniaxial compressive strength of rock material
- Rock quality designation (RQD)
- Spacing of discontinuities
- Condition of discontinuities.
- Groundwater conditions
- Orientation of discontinuities



## TYPE OF ROCK AND CS

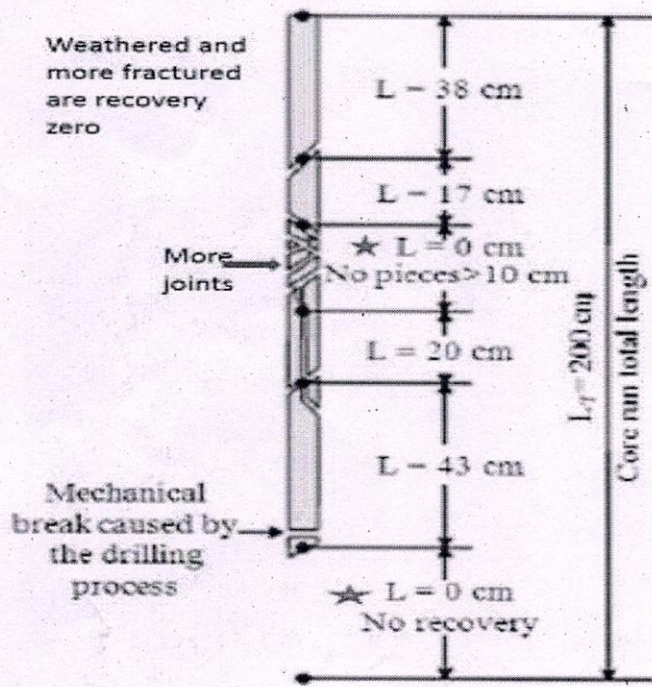
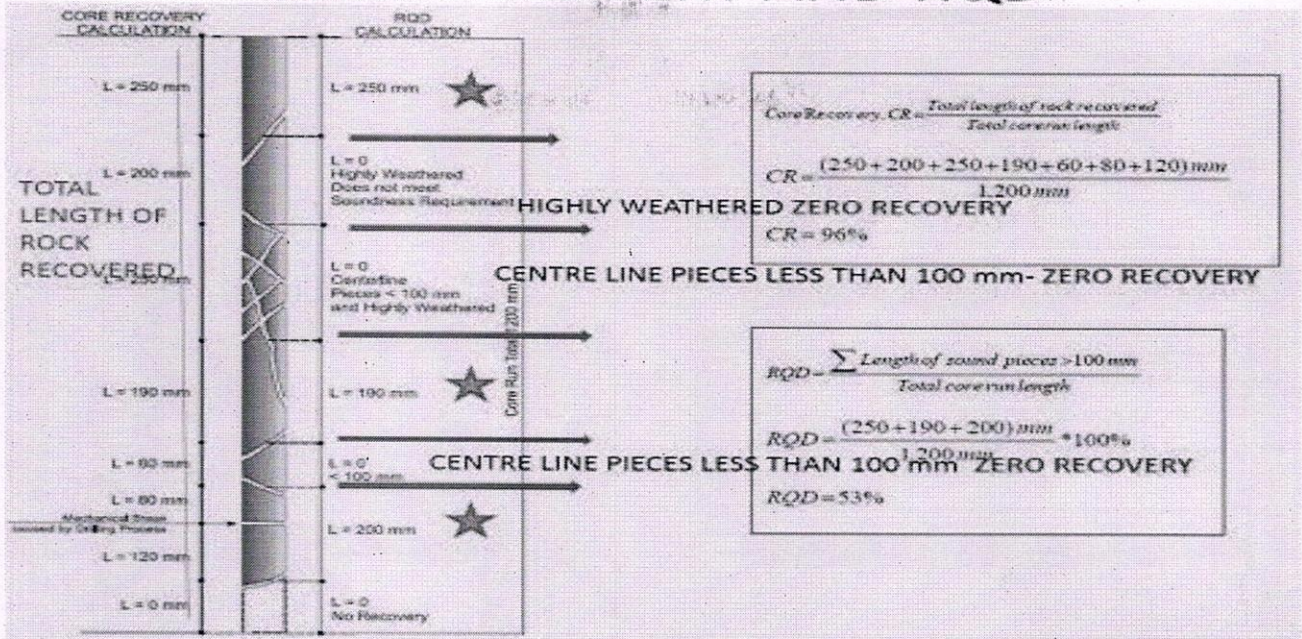
<b>Uniaxial Compressive Strength</b> <small>A measure of a material's strength. The uniaxial compressive strength (UCS) is the maximum axial compressive stress that a right-cylindrical sample of material can withstand before failing.</small>		<b>Ranges for some Common Rock Material</b>
<b>Term</b>	<b>Kg/cm<sup>2</sup></b>	
Very Weak- VW	< 70	Schist, Silt stone
Weak- W	70-200	VW-W, Sand Stone, Lime stone
Medium Strong-MS	200-700	-VW-M, Granite,
Strong- S	700-1400	Basalt, Gneiss,
Very Strong- VS	> 1400	Quartzite, Marble -MS-VS

## ROCK QUALITY DESIGNATION (RQD)





# CORE RECOVERY AND RQD



$$RQD = \frac{\sum \text{rock pieces } \geq 10 \text{ cm}}{\text{Core run total length}} \times 100 (\%)$$

$$RQD = \frac{38 + 17 + 0 + 20 + 43 + 0}{200} \times 100 (\%)$$

**RQD = 59% (FAIR)**

RQD (%)	Geotechnical quality
<25	Very poor
25-50	Poor
50-75	Fair
75-90	Good
90-100	Excellent



## Rock Sampling (Coring)

### Core recovery parameters

- So Rock Quality Designation (RQD) is the percentage of rock cores that have length  $\geq 10$  cm over the total drill length (core run).
- RQD may indicate the degree of jointing or fracture in a rock mass. e.g. High-quality rock has an RQD of more than 75%.
- RQD is used in rock mass classification systems and usually used in estimating support of rock tunnels.

RQD	Rock Mass Quality
< 25	Very poor
25 – 50	Poor
50 – 75	Fair
75 – 90	Good
99 – 100	Excellent

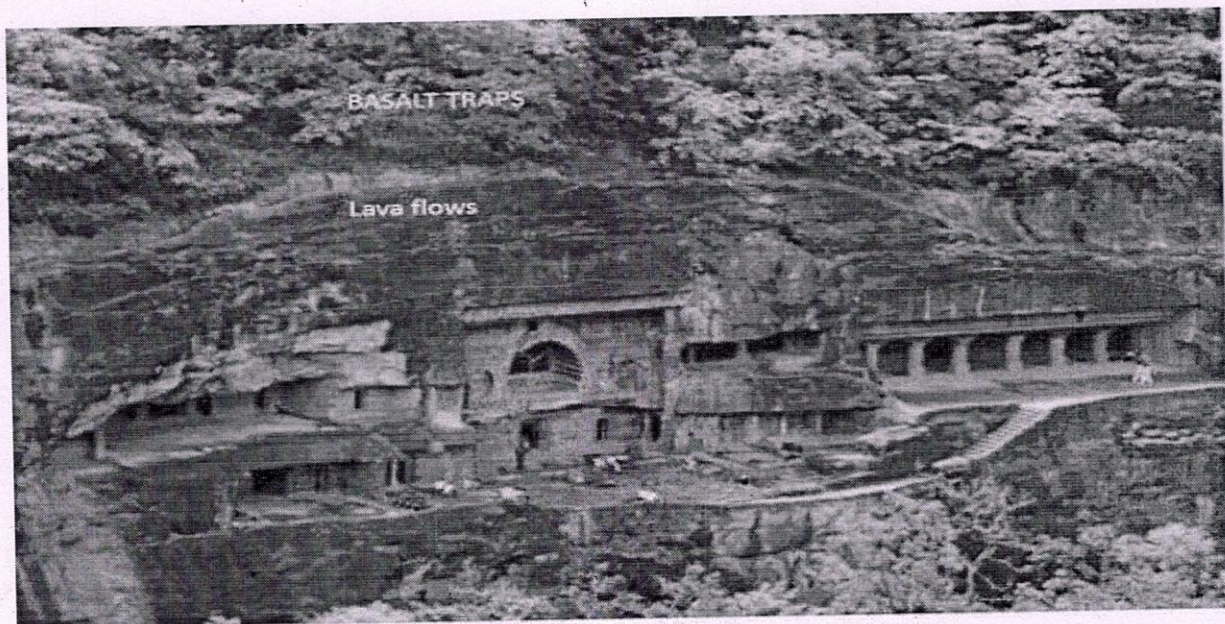


Figure 5: Ajanta cave, Aurangabad, India.

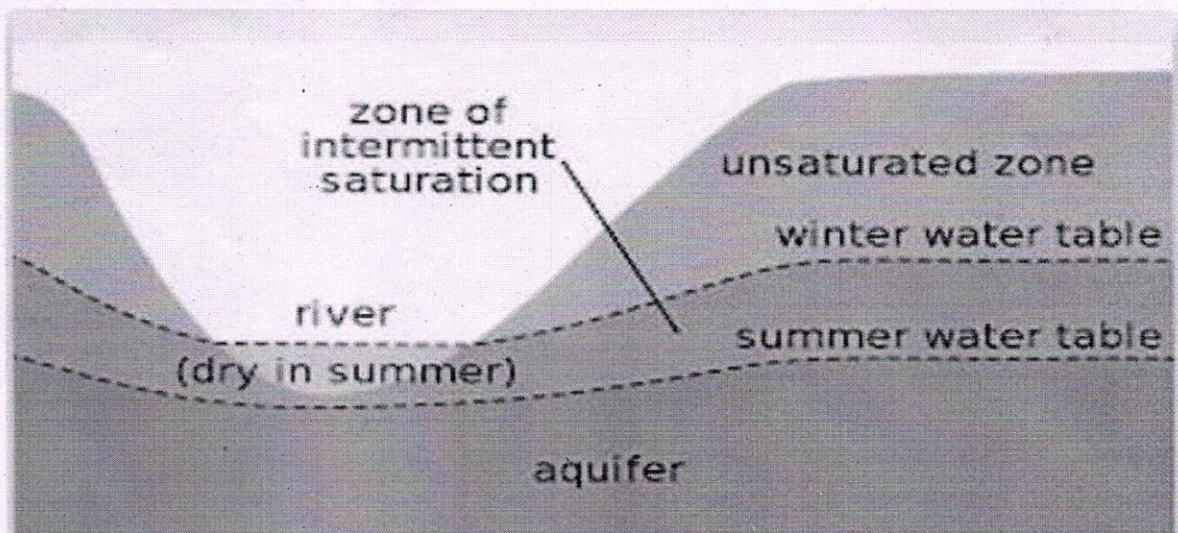


Tab.1. Geological factors of the environment and environmental-geologic conditions of a territory

Geological potentials	Suitable condition for construction <small>ROCK TYPE, STRUCTURAL GEOLOGY</small>	Available resources of groundwaters	Available resources of mineral raw materials	Phenomena useful in health service, tourism and recreation	Environmental geologic condition of the territory
Geological barriers	Landslides Earth flows Avalanches	Pollution of groundwaters	Subsidence and sagging of the surface	Sheet erosion Wash out erosion	

The best way how to express environmental-geologic conditions of a territory is to compile a map. In Slovakia, there are geoenvironmental conditions usually depicted in maps of geofactors of the environment. The maps consist of several map sheets covering practically environmental aspects of all branches of geology mainly engineering geology, hydrogeology, geochemistry, economic geology, geophysics and pedology. Regarding the great amount of the maps, as well as the high degree of specialisation of some of them, a simplify comprehensive Map of significant geofactors is compiled for purposes of land-use planning and environmental protection. This map contains only some geofactors (taken over from the

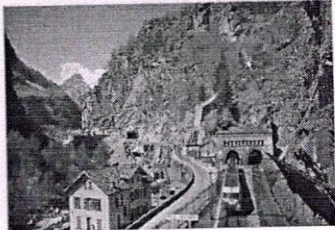
## WATERTABLE





REC narsimha rao is presenting

### IMPACT OF GEOLOGY IN TUNNEL CONSTRUCTION-simplon



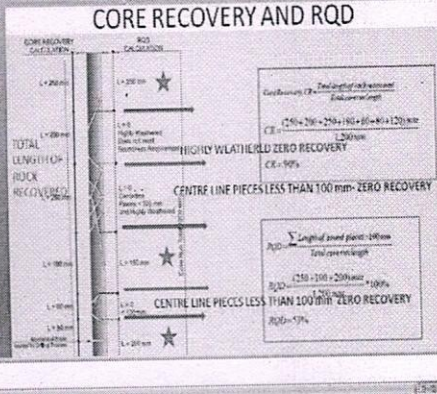
Click to add notes

12:05 PM | eaz-wtzz-pkc

Participants: narsimha rao, RE 129 ARAVINDA R..., LE-105 VENUGOPA..., Srinivasula Reddy L., G HARINI, P madhu Sudhana 1..., HYDER ALI KHAN G..., 64 others, You

REC narsimha rao is presenting

### CORE RECOVERY AND RQD



Click to add notes

12:36 PM | eaz-wtzz-pkc

Participants: narsimha rao, RE 107 OHM SWAM..., HYDER ALI KHAN G..., RE 129 ARAVINDA R..., LE149 CHANDRA M..., RE-105 Chandra S..., LE-115- DASARI SR..., 66 others, You

Students were conveying regards to the Department of Civil Engineering in online



### **HoD's words at end of the Event:**

At the end of the webinar, Dr. N. Amaranath Reddy, HoD, Dept. of Civil Engineering, KSRMCE expressed his regard to the speakers for sharing his knowledge with the students. HoD wished the speakers to get a better position in future and also asked the speakers to give more Presentations to students of KSRMCE.

### **Vote of thanks:**

Sri. Ch. Santosh Kumar (Coordinator of the event) delivered vote of thanks by thanking the students for their participation, faculty members for their active participation, (Especially for Sri. I Sreenivasula Reddy and HoD) for providing zoom online platform and Google Link to conduct such events and organization of KSRMCE for encouraging to conduct such events.

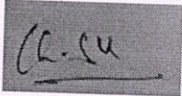
A total of 75 members containing students and faculty of Department of Civil Engineering, KSRMCE participated in this event

### **Suggestion / Comments about the webinar:**

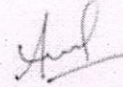
- Nice Lecture
- Easily understand
- It is really good experience for attending the webinar.
- Thank you sir, for giving these kind of information. Please provide these kind of sessions more.
- We are interested more to participate in webinars
- It's very useful to us
- Thanks for helping all to understand the subject in easy mode
- It was very helpful to us thank you so much your valuable lecture sir.
- We people from 3rd year should briefly understand the topic covered in this webinar,
- Very good teaching
- It's is very useful to us they explained a well on this really it is very interested and that more ever it is very useful to us for second year ,third year and Final year students.



- Tq so much sir conducting this webinar.
- Waiting for more webinars like this
- Thank you sir for conducting
- It is very useful for use
- Excellent sir
- Easily understanding sir
- Thanks Team
- Very useful lectures
- Good for students



**Ch.Santosh Kumar**  
Coordinator



**Dr. N. Amaranath Reddy**  
(HoD, Civil Engg.)





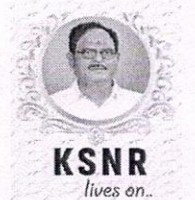
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## Department of Civil Engineering

Name of the Event: Webinar on "Importance of Geology"

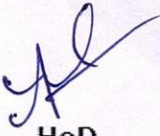
### List of Participants

S.NO	Roll No.	Name of the student	Branch	Signature
1	20941A0155	N.V.Sai Kiran	Civil	Sai
2	20941A0140	M. Vamsi	Civil	Vamsi
3	20941A0153	N.Naga Siva Sai	Civil	Sai Siva
4	20941A0158	Lokanath	Civil	Lokanath
5	20941A0147	M. Rahul	Civil	Rahul
6	20941A0148	M. Sreenath	Civil	Sreenath
7	20941A0149	M. Vinudra Naidu	Civil	Vinudra Naidu
8	20941A0142	M.Madhu Krishna	Civil	Madhu
9	20941A0143	M. Reddy Sai	Civil	Reddy Sai
10	20941A0157	P.Siva Sai KUMAR	Civil	P.Siva Sai KUMAR
11	20941A0150	N. Saleem	Civil	Saleem
12	20941A0138	M. Suresh	Civil	Suresh
13	20941A0145	M. Venkata Sai	Civil	Venkata Sai
14	19941A0143	R. Hima Bindu	Civil	Hima Bindu
15	19941A0163	S. Zareena Tameem	Civil	Zareena Tameem
16	19941A0166	U.V. Yeshaswini	Civil	Yeshaswini
17	19941A0101	B. Anirudh	Civil	Anirudh
18	19941A0144	S. Sadamini	Civil	Sadamini
19	19941A0120	K. Kejiya	Civil	Kejiya
20	19941A0122	K. Naga Ratna	Civil	Naga Ratna
21	19941A0146	S. Mohammad	Civil	Mohammad
22	19941A0147	S. Sudarshan	Civil	Sudarshan
23	19941A0127	M. Vagna Priya	Civil	Vagna Priya
24	19941A0106	C. Hanitha	Civil	Hanitha
25	19941A0108	D. Anurha	Civil	Anurha
26	19941A0162	S. Tunaid	Civil	Tunaid
27	19941A0164	T. Anil Kumar Reddy	Civil	Anil Kumar Reddy
28	19941A0156	S. Aarati	Civil	Aarati
29	19941A0150	S. Va. A Swak	Civil	Va. A Swak
30	19941A0158	S. Kavitha	Civil	Kavitha
31	19941A0145	S. Pavankumar Reddy	Civil	Pavankumar Reddy
32	19941A0170	Y. Prathusha	Civil	Prathusha
33	19941A0172	Y. Brankini	Civil	Brankini
34	19941A0168	Y. Manuika	Civil	Manuika
35	20941A0	M. Suresh	Civil	Suresh
36	20941A0143	Y. Reddy Sai	Civil	Reddy Sai
37	20941A0142	M. Sreemitha	Civil	Sreemitha
38	20941A0149	M. Navya Krishna	Civil	Navya Krishna



38	209V1A018	V. S. K. Jayanth	Civil	V. S. K. Jayanth
39	209V5A016	C. Deepak	Civil	Deepak
40	209V1A017	S. Sayad Basha	Civil	S. Sayad Basha
41	209V1A018	S. Jagan	Civil	S. Jagan
42	219V5A012	K. Sakanya	Civil	S. K.
43	209V1A018	D. Aditya Sreeram	Civil	S. A.
44	209V1A0105	B. Gururuchithra	Civil	Ruchithra
45	199V1A0128	M. Divya	Civil	Divya
46	209V1A0139	M. Vishnu	Civil	Vishnu
47	209V1A0109	K. Vishnu vardhan	Civil	V. V.
48	209V1A0117	D. Anandh	Civil	D. Anandh
49	209V1A0115	M. Subbarajulu	Civil	M. Subbarajulu
50	209V5A0156	P. Asma	Civil	P. Asma
51	209V5A0126	J. Venkata Sai prassanna	Civil	J. V. Sai
52	199V1A0143	R. Himma Rindhu	Civil	R. Himma
53	199V1A0167	VADDE Chandrabekhar	Civil	Chandrabekhar
54	209V1A0126	K. Sree Revathi	Civil	Revathi
55	209V1A0106	B. Divya Kumar	Civil	B. Divya
56	209V1A0104	A. Venkata Subbamma	Civil	A. V. Subbamma
57	209V1A0195	S. Pallavi	Civil	S. Pallavi
58	209V5A0153	N. Sowjanya	Civil	N. Sowjanya
59	209V1A0115	C. Sravani	Civil	C. Sravani
60	209V1A0149	M. Narendra Naik	Civil	M. Narendra Naik
61	209V5A0112	C. Upendra	Civil	C. Upendra
62	209V1A0102	A. Jyoshika	Civil	A. Jyoshika
63	209V1A0109	B. Sravan Kumar	Civil	B. Sravan Kumar
64	209V1A0152	P. Lalitha	Civil	P. Lalitha
65	209V1A0128	K. Eswar Sai	Civil	K. Eswar Sai
66	199V1A0172	V. Brahmi	Civil	V. Brahmi
67	209V1A0126	K. Seiralli	Civil	K. Seiralli
68	209V5A0133	K. Bhanu prasad	Civil	K. Bhanu prasad
69	199V1A0163	S. Zareena	Civil	S. Zareena
70	199V1A0170	Y. Prathyusha	Civil	Prathyusha
71	209V5A0120	G. Harini	Civil	G. Harini
72	209V1A0112	C. Subhash	Civil	C. Subhash
73	199V1A0106	C. Haritha	Civil	C. Haritha
74	209V5A0105	B. Gururuchithra Reddy	Civil	B. Gururuchithra Reddy
75	209V1A0117	M. Rahul	Civil	M. Rahul

Ch. S. K.  
Co-ordinator

  
HoD

Head  
Department of Civil Engineering  
K.S.R.M. College of Engineering  
(Autonomous)  
KADAPA - 516 003. (A.P.)





# K.S.R.M. COLLEGE OF ENGINEERING

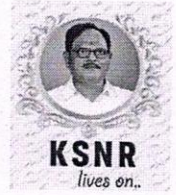
(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India- 516 005

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu

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DEPARTMENT OF CIVIL ENGINEERING



## Feedback Form

Your feedback is crucial to ensure we meet your educational needs. We would appreciate it if you could take a few minutes to share your opinions with us so we can serve you better.

Course Title : *Webinar on Importance of Geology*  
Resource Person(s) : *D.V.S. Narasimha Rao*  
Date(s) of the course : *10-07-2021*  
Name of the Student : *R. Gangaiah Reddy*  
Roll No. : *209YKA0169*

S. No.	Item Description	RATING (Please Tick the relevant)		
		LOW	MODERATE	HIGH
1	The content was Clear & Understandable		/	
2	The program was well-paced within the allotted time			/
3	The instructor was a good communicator		/	/
4	The material was presented in an organized manner		/	
5	The instructor was knowledgeable about the topic			/
6	I would be interested in attending a follow-up, more advanced workshop on this same subject/any other			/
7	Given the topic, was this workshop	Too Short	Right Length	Too Long
8	In your opinion, was this workshop	Introductory	Intermediate	Advanced
	<b>Please Rate the following</b>	<b>LOW</b>	<b>MODERATE</b>	<b>HIGH</b>
	a) Visuals			
	b) Acoustics		/	
	c) Meeting space/Venue			/
	d) Handouts		/	
	e) The Overall Program			/
9	What did you most appreciate/enjoy/think was best about the course? Any suggestions for improvement?	<i>NO</i>		

Please return this form to the instructor or organizer at the end of the course. Thank you.

*R.G. Reddy*  
Signature of the Student