



**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
(An Autonomous Institution – Affiliated to Anna University, Chennai)  
**Pennalur, Sriperumbudur – 602117**



**DEPARTMENT OF CIVIL ENGINEERING**  
**CIVIL ENGINEERING ASSOCIATION (CEA)**

**REPORT OF TECHNICAL TALK ON " ENVIRONMENTAL REMEDIATION - SCOPE  
AND APPROACH"**

**Date, Time & Meeting URL link**

Date : Friday, 21st May, 2021  
Time : 09:15 am - 10:30 am  
Mode : Online through Google Meet  
Meeting Link: <https://meet.google.com/xnu-dufq-ide>

**Speaker:**

1.Mr. Avinash CKR, Environmental Consultant AECOM, Bangalore

**Student Coordinator(s):**

- 1.Mr. Abishek Murali ( III year Civil Engg.)
- 2.Ms. Arshiya AS ( II year Civil Engg.)

**Faculty Coordinator(s)**

- 1)Mr.Kalaivannan R ,Assistant Professor ,Dept of Civil Engg ,SVCE
- 2)Mr.Hariswaran S ,Assistant Professor , Dept of Civil Engg. ,SVCE

**Convenor :**

Dr.R.Kumutha, Professor & Head/Civil Engg.

**Target Audience:**

Students of Department of Civil Engg & External Participants

**Host:**

- 1.Ms. Dharshini G (III year , Civil Engg.)

**Participation:**

Number of Participants benefited	:	60
Faculty	:	12
Research Scholars	:	Nil
UG Students	:	47
Industry Persons	:	01
Others	:	Nil

## BROCHURE:



**SVCE** | Sri Venkateswara  
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Pennai, Sriperumbudur Tk. Tamil Nadu 602117



### Department of Civil Engineering & Civil Engineering Association

Solicit your esteemed presence for the  
Inaugural Function  
Of

# “ARTIFEX 2021”

A National Level Technical Symposium

by

**Mr.Avinash CKR**

Environmental Consultant  
AECOM,Bangalore

Date : 21-05-2021 (Friday)

Time: 09.00 AM

Gmeet Link: <https://meet.google.com/fuo-qpri-htxT>

Further details are on our Website: [www.sites.google.com/view/artifex2021](http://www.sites.google.com/view/artifex2021)

svce.ac.in





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## **AGENDA**

### **INAUGURATION**

- 9:15am - 9:20am**    Invocation
- 9:20am - 9:25am**    - Welcome address **Mr.Vikash CK** ,President/CEA
- 9:25am - 9:30am**    - Introduction to Chief guest **Mr.Abishek Murali**  
General Secretary /CEA
- 9:30am - 10:30am**    -Inaugural Address & Technical Talk on  
**Environmental Remediation- Scope and**  
**Approach** by **Mr.Avinash CKR** nvironmental  
Consultant **AECOM**,Bangalore

## **BRIEF REPORT OF TECHNICAL TALK ON " ENVIRONMENTAL REMEDIATION - SCOPE AND APPROACH"**


The host Ms.Dharshini G (III year), welcomed everyone present in the meet and the much awaited event started with the prayer song. Followed by which Mr Abishek Murali, general secretary of CEA delivered the welcome address. The chief guest of the day Mr. Avinash CKR was introduced by Arshiya AS, the joint secretary of CEA.

Mr. Avinash CKR began the webinar by sharing his thoughts on the present pandemic and some preventive measures. The following were shared by him:

- Scope of remediation in India.
- Remediation technologies
- Roadmap to remediation
- Periodic monitoring of events
- Pilot trials
- Soil vapour extraction
- Air sparging and Bio sparging.
- Dual phase extraction (DPE)
- Piping and system layout.

**SNAPSHOTS OF THE WEBINAR**

**SPEAKER : Mr. Avinash CKR**



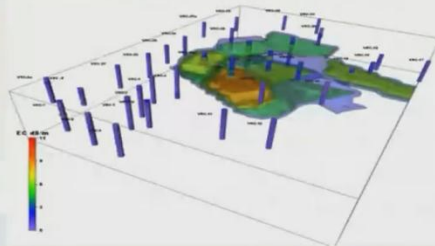
The image shows a screenshot of a webinar interface. The main content area displays a slide with an aerial night view of a city skyline. The slide features the AECOM logo in the top right corner with the tagline "Imagine it. Delivered." and the title "Environmental Remediation- Scope and Approach" in large white text. At the bottom of the slide, there is a small white box with the text "meet.google.com is sharing your screen." and two buttons: "Stop sharing" and "Join".

On the right side of the interface, there is a circular video feed of the speaker, Mr. Avinash CKR, with his name "Avinash CKR" written below it.

## Scope of Remediation in India

- Huge potential in developing countries
- USEPA, Dutch and Canadian standards are referred world wide
- No regulations/guidelines in India
- Soil and Groundwater standards in India are expected to be released in few years

"Removal of the pollutants/toxins from Soil/Ground water/Surface water. Removing the source or breaking the pathways reduces exposure"



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environment-analyst.com • 1 min read

Source: <https://environment-analyst.com/uk/106903/global-environmental-consulting-market-set-to-surge>

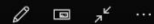
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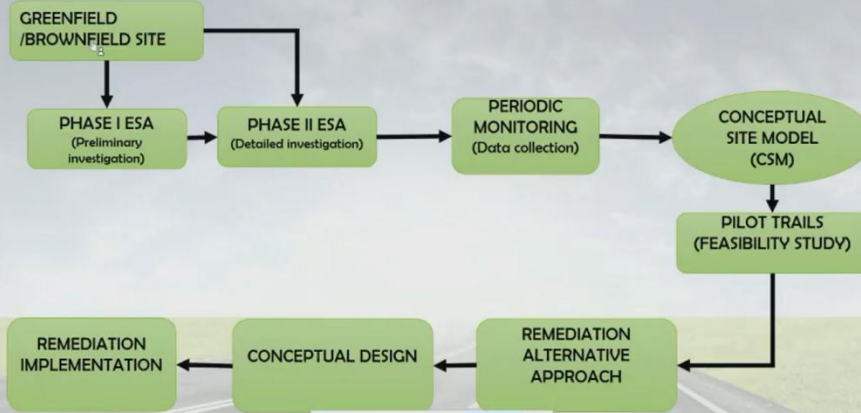


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Avinash Ckr

## Road Map Towards Remediation



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## Bio sparging (BS)-Passive Venting (PV)

"Bio sparging is the process of inducing air into subsurface at lower flowrate to aerobically degrade petroleum hydrocarbon present in the dissolved phase"

- Combined BS-PV to remove volatile hydrocarbon impacted soil by the usage of whirly birds
- Targets the contaminant mass present in the dissolved phase
- Suitable for relatively small and finite releases

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05:30:05      02:23:40

*Kalaivannan*

Prepared by  
Mr. Kalaivannan R, AP/CE, SVCE

*R. Kumutha*

Approved by  
Dr. R.Kumutha Prof & Head ,CVE