



## One Day National Webinar

### Open Cast Mining and Waste Management - Issues and Challenges

11 JUNE 2021

For extraction of minerals and fossil fuels Mining activities are performed. Mining activities are of two types: Subsurface Mining and Open Cast Mining (also known as Surface Mining). Both the methods are destructive and several occupational health hazards, negative socio-economic threats, ecological and environmental impacts are involved in it. Bidhan Chandra College, Asansol organized a One-Day National Webinar on “Open Cast Mining and Waste Management – Issues and Challenges” on June 11 2021. Socio–Economic and environmental problems along with different issues and challenges related to Open-cast Mining were among the prime issues of our discussion. Our exceptionally capable Men of letters provided us with their vast materials of knowledge and science.



<https://youtu.be/bdg8Ejg2E7s>

## Esteemed Keynote Speakers

### **Dr Sunil Kumar**

Professor at

Senior Principal Scientist and Head

Reprocessing Division at CISR

National Environmental Engineering Research Institute (NEERI) Nagpur

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### **Dr Amitra Sudan Chakraborty**

Head at School of Legal Studies

Seacom Skills University, West Bengal

Founder of MANAB

A Human Rights Organization

<http://www.manab.org.in>

### **Mr Swaraj Das**

Social & Environmental Activist

Founder of PAPA (Project Affected Peoples Association)

Works for Mines , Minerals and Peoples

## Organizing Committee

**Chief Patron:** Dr. Falguni Mukhopadhyay, Honourable Principal, Bidhan Chandra College

**Chairperson:** Dr. Monoranjan Ghosh, Bidhan Chandra College

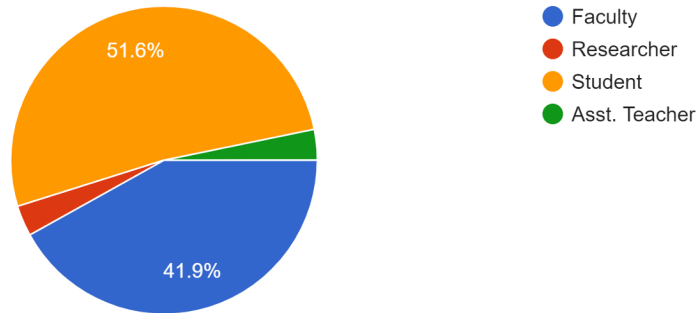
**Convener / Co – Ordinator:** Mrs. Debdyuti Sengupta, Bidhan Chandra College

**Joint Convenor:** Ms . Manjulika Dey, Bidhan Chandra College

# Registered Responses

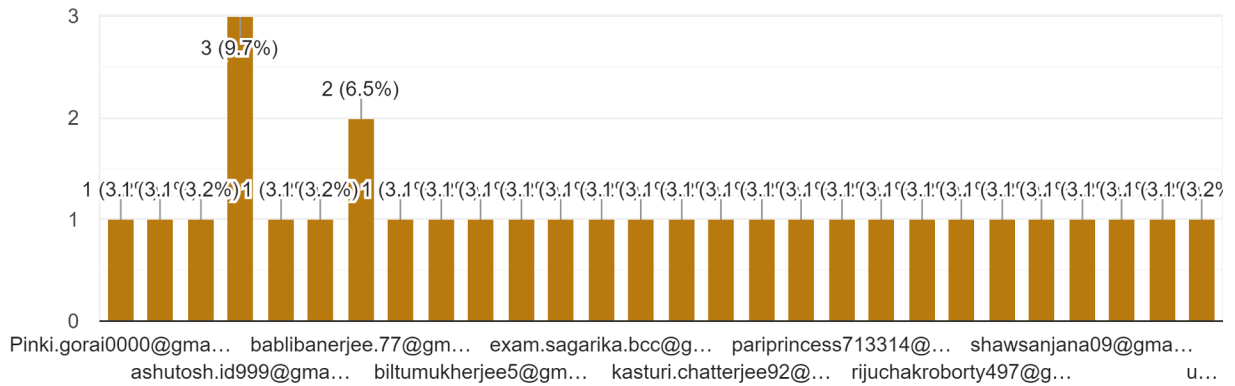
## Designation(s) as found from the registered response

Designation  
31 responses



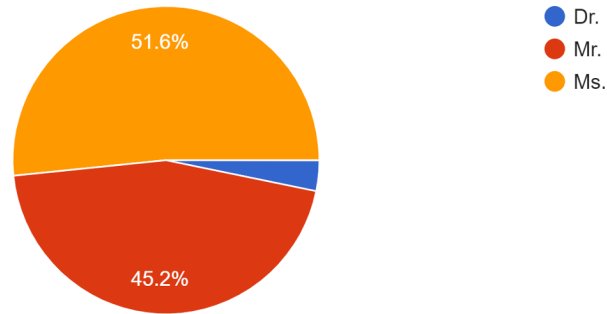
## Registered Email Addresses

Email Address  
31 responses



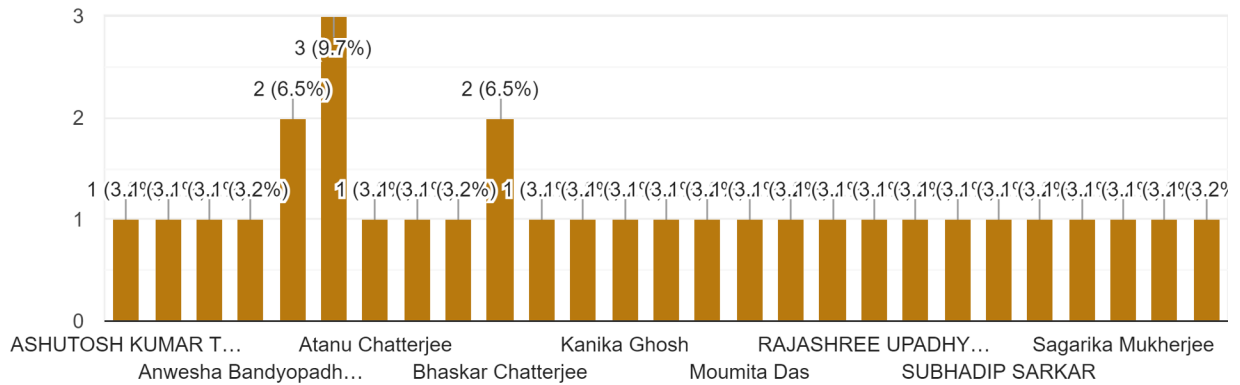
## Requested Salutations

Salutation  
31 responses



## Requested Names

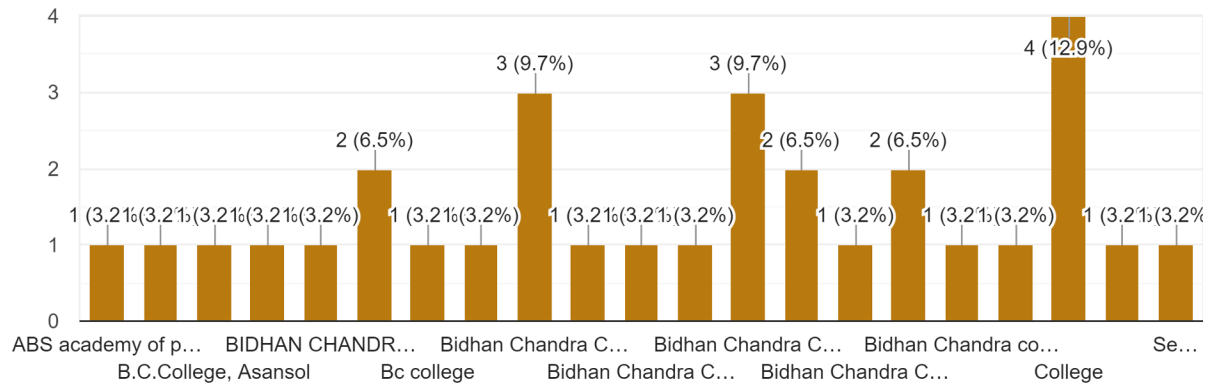
Name (as get to be printed on the E-Certificate)  
31 responses



## Affiliation of registered participants

Affiliation (College/University/Institute etc.)

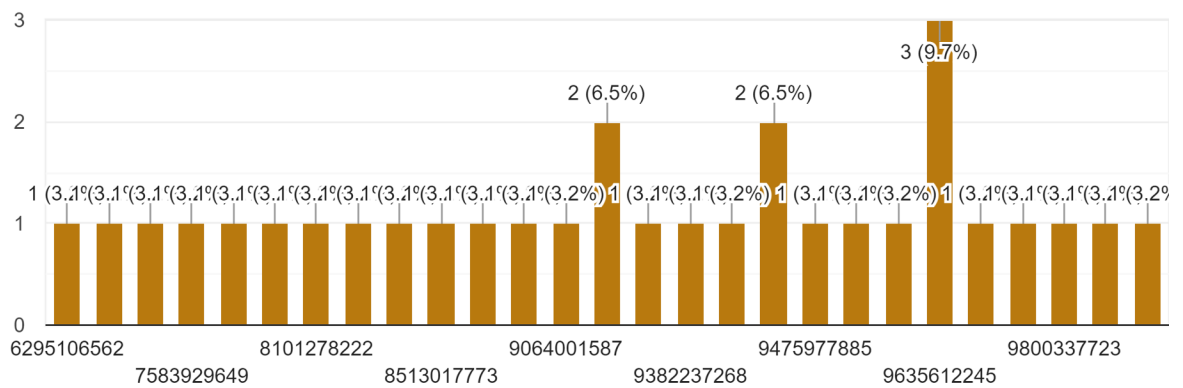
31 responses



## Provided Contact information as per the registered participants

Contact No.

31 responses



## Feedback responses for our Keynote Speakers

Your take home message from Dr. Sunil Kumar

31 responses

Yes

Good

Yes

Latest outlook about topic discussed

Nice session

No

New learning

Become aware

Always try to save our natural resources and keep environment neat, clean and healthy.

Your take home message from Mr. Swaraj Das

31 responses

Knowledge about pollution

-

Required more knowledge sir

Thank u so much sir for increasing my knowledge in this topic.

Very good

The take home message is the succinct answer to your research question based on your findings and it's relevance to the general topic .

Do

Gain more information

Adverse effect of open mining

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Your overall observation regarding this webinar

31 responses

No
Yes
Got useful information and new things about "Open Cast Mining and Waste Management – Issues and Challenges".
Got useful information and new things about "Open Cast Mining and Waste Management – Issues and Challenges"
Resourceful and relevant information
It was good enough for all of us we got to know about the disadvantages and the solutions regarding the topic of open cast maining.
He impact open cast mining on environment.
Grabed new understanding on topic

***Educational qualifications and work experience of our resource persons in the workshop on environmental studies .***

<p>Dr Sunil Kumar Educational qualifications : M.Tech ( IIT Kharagpur ) , PHD Experiences : Senior Principal Scientist and Head, Waste Reprocessing unit NEERI (CSIR) Government of India.</p>	<p>Dr Amita Sudan Chakroborty Head School of Legal Studies (Seacom Skills University) Educational qualification : B.COM (HONS) , LLB , LLM , PHD Teaching experiences : Glocal School of law (faculty , department of legal studies) Amity university (faculty , department of legal studies)</p>
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Objective to join the Webinar

To get extensive knowledge on environmental impact of open cast mining in these areas

To know the adverse impacts of Open cast mining

As a Environmental Science student

Gathering information about Open Cast Mining and Waste Management Issues

To get some information regarding the topic

Enhancement in environmental skills

To learn more about cast mining and waste management

Wish to know in details about the title of the topic and may be do something in future as per my knowledge

Gain my knowledge

For information

For knowledge

For knowledge

For learning and gaining knowledge

For learning and gaining knowledge

Knowledge

I am interested this type of webinar

I am joining this webinar to gain useful knowledge.

Want to know in detail the above said topic.

I want to know about the subject

Very excited to know the knowledge about open cast mining and waste management.

I want to know about the subject

To enrich on environment

To know more details about the topic

To understand minning

I want to know about the subject

To understand management

To understand the importance of the topics

Knowledge

To gain knowledge and become self aware of surrounding

To gain knowledge

To Aware about the Topic

Money problem

Increase my knowledge in this topic

Gate knowledge

For experience

Yes

For knowledge and information

To learn more about this tu

Want to Know about this webinar

TO SAVE THE ENVIRONMENT

Yes

As you think

Socio-Economic and environmental problems along with different issues and challenges related to Open-cast

Knowledge purpose

Exem

To gain knowledge and become self aware of surrounding

Knowledge

Enrichment

My objective is to know details about Open Caste Mining and Waste Management.

Learn about it

To get information about open cast mining and waste management - issues and challenges

To get information about Open Cast Mining and Waste Management- Issues and Challenges

To gain knowledge about this topic.

To get knowledge

How to reduce the Environment problem

Knowing about the socio-economic demerits causing hamper to the environment in the process of mining

For knowledge about this topic

To support in the following process

For experience

For expression

To know about waste management

For expression

Learn something new

My main objective is to avoid socio-economic and environmental problems around our surroundings.

Brief discussion about the open cast mining and waste management and how to prevent it.

To gain knowledge

TO KNOW NEW THINGS

Keep environment safe & clean

Learning

Learning

To participate in the activity

Issue and challenges of open cast mining and waste management

Interested

FOR SOME EXPERIENCE

To gain knowledge about waste management

to enhance knowledge

LEARNING

Wanted to increase my knowledge about cast mining and waste management

Learning

To enrich on environment

TO SAVE THE ENVIRONMENT

No experience

I love nature

I am nature lover

I am nature lover

To gain knowledge and become self aware of surroundings.

I am interested

Interested

To gain education knowledge even the pandemic

"taking an initiative to participate in environmental services "

"taking an initiative to participate in environmental services "

"taking an initiative to participate in environmental services "

Gain knowledge about the subject for future events

"taking an initiative to participate in environmental services "

Acquire Knowledge

Nothing

"taking an initiative to participate in environmental services "

"taking an initiative to participate in environmental services "

To gain educational knowledge even in the pandemic

"taking an initiative to participate in environmental services "

"taking an initiative to participate in environmental services "

To get some knowledge

Get some new idea

To get some new knowledge regarding this topic.

To learn about Open cast mining at its environmental impacts

Protect environment

To get some new ideas regarding this topic

To get some knowledge regarding this topic

Self interest

Nothing

To grow knowledge about pollution free world.And make various idea to reduced pollution

To rich knowledge about pollution free world.And make ideas for reduced pollution

Business

Business

To learn something new.

Getting more comfortable with rare discussions like open cast mining which are yet so impactful in our society

For some knowlage

I want to know about this.

I won't to know about this

To enhance knowledge in mining and its impact in environment.

For experience

To gain knowledge

I won't to know about this

To build up my knowledge

I won't to know about this

TO SAVE THE ATMOSPHERE

To improve in my knowledge

For knowledge

To gain knowledge and become self aware of surroundings

FOR BETTER KNOWLEDGE

Interest on the topic

This is my first webinar

For exam

To get some new information

Know about waste management

For learning and gaining knowledge

I want to know about Open Cast Mining and Waste Management – Issues and Challenges

For knowledge....

I want to learn from experts

I want to learn from expert

For experience

To get some new ideas as to get some information

Curiosity

Study

To know more about this webinar

To know more about this webinar

To enhance my professional skills, capabilities and knowledge in the organizations in which I will get the job

Exposer to recent update related to said topic

Collection of knowledge

Development of personal and social knowledge about environment.

My objective is to know details about Open Caste Mining and Waste Management.

I want to know about these

to gather information and knowledge

The purpose of joining this webinar to know the disadvantages of open cast minig. And to earn more knowle

To Learn

Skill development

To gain knowledge about open cast mining and waste management- issues and challenges

I want to learn from experts

I want to learn from experts

Ok

Ok

To learn open cast mining and waste management-issues and challenges

To get some knowledge about this topic

Management

Want to gain new experience

Flyer for National Webinar

To know the adverse impacts of Open cast e

To enhance my professional knowledge and skills

722153

I will learn.

Strong for self and for us

To gain knowledge

To know about the issue regarding sub surface mining aur open cast mining.

Goal archive

I want to know about this, I like to know new things, I have no idea about this, I want to know what this thing i

I want to know about this, I like to know new things, I have no idea about this, I want to know what this thing i

To know about waste management issues

Y

Free registration

Free registration

Free registration

Free registration

Gain knowledge

Gain knowledge

Gain knowledge

Gain knowledge

Just knowledge

To know more about opencast mining and the waste management

For knowledge

The topic of the function is quite good and i want to be a part of this very webinar

For knowledge

Nil

To get the knowledge about I'll impactes of open cast mine

To get the knowledge

To gain knowledge about open cast mining and its impact on environment.

To Gain Knowledge And Self Aware Of Surroundings

Want to know & gathered some knowledge

Interested

Participants

To know the details of open cast Mining and waste management and also its impact on environment..

To know the mining system and its effect on environment

Want to know something

To get knowledge about the adverse impacts of open cast mining on environment.

Topic is very interesting to me

To get knowledge about adverse on open cast mining on environment

To know about open cast mining

Educational purpose

For learning and gaining knowledge

To enrich knowledge

Study

To enhance my knowledge about the management field. Since this webinar is related to my educational back

For knowledge



ast Mining



ty and the environment is necessary. That is why I hope this webinar will help me to learn more about

dge on waste management.

is.

is.

ground, I want to understand the issues involved in open mining and learn more practical / effective



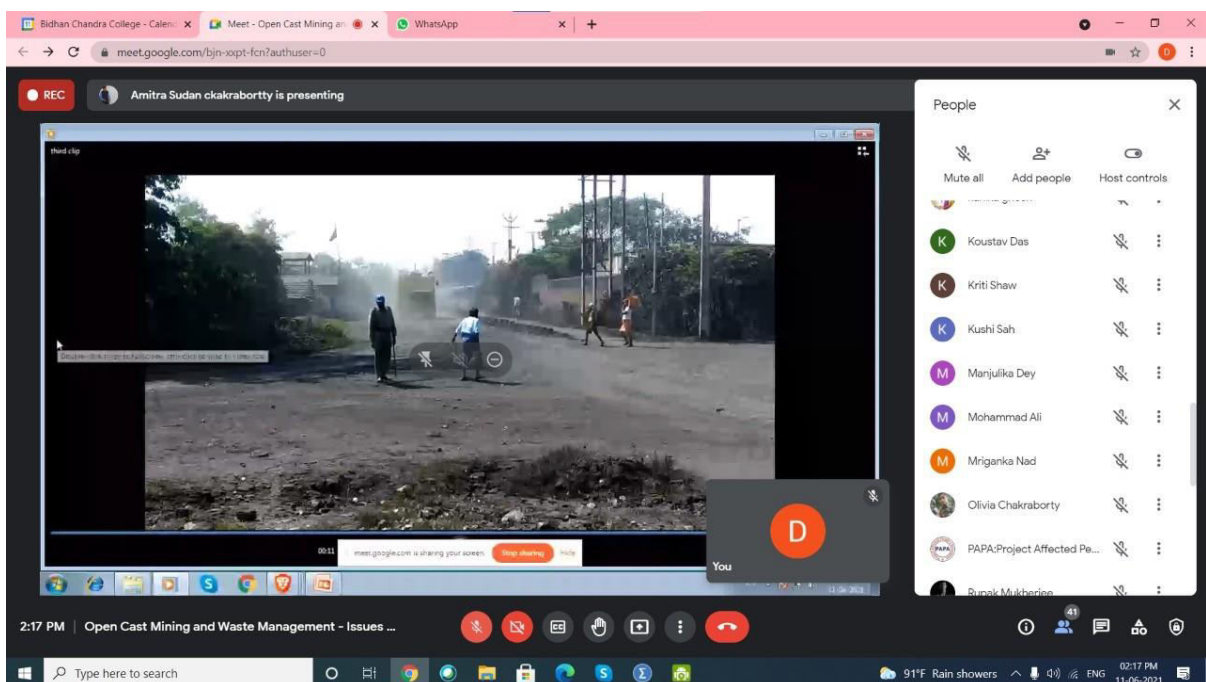
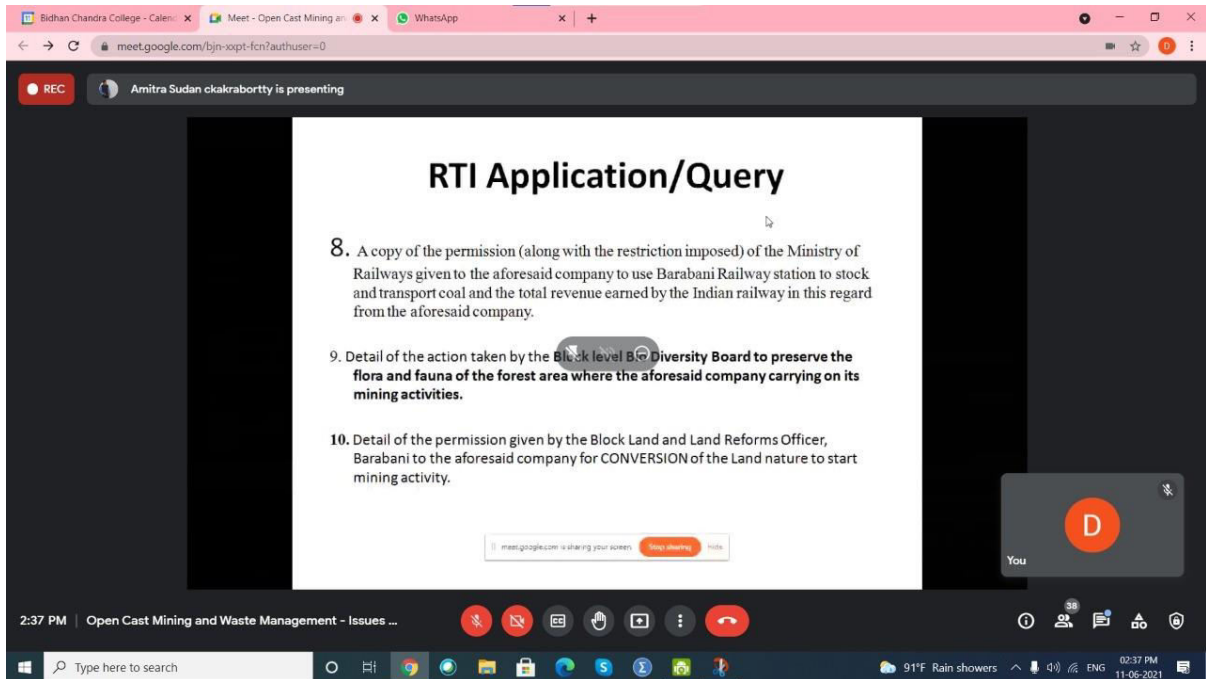


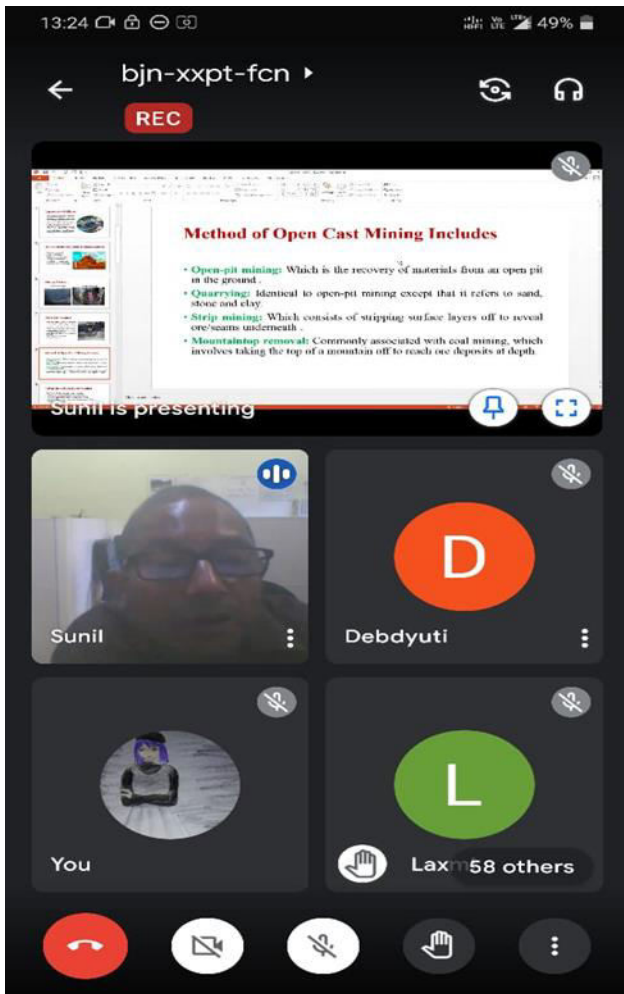
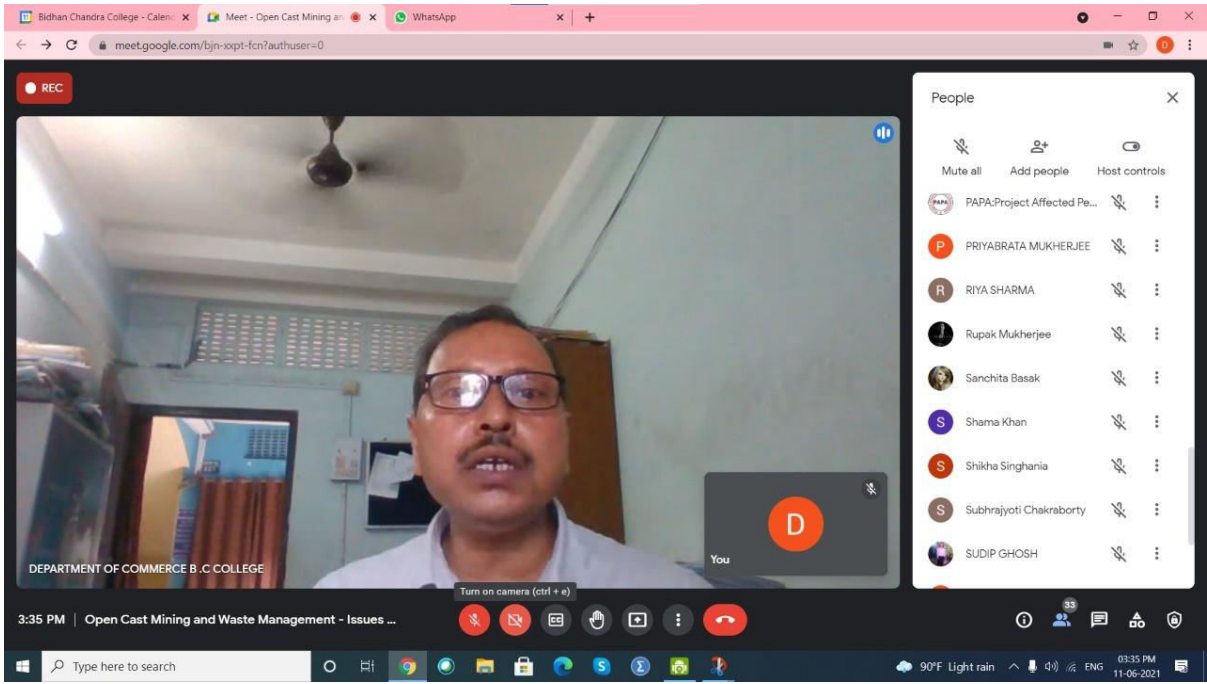
at it which I can further utilise in my future.

3 ways to tackle them.



# Some screenshots during the webinar of the department of environmental studies.





13:52

CSIR-NEERI: INTRODUCTION

The CSIR-NEERI is a research institute created and funded by Government of India. NEERI falls under Ministry of Science and Technology (India) of Central Government.

It was established in Nagpur in 1958 as Central Public Health Engineering Research Institute (CPHERI), when environmental concerns were limited to human health with focus on water supply, sewage disposal and communicable diseases and to some extent on industrial pollution and occupational diseases.

NEERI is a pioneer laboratory in the field of environmental science and engineering and part of Council of Scientific and Industrial Research (CSIR). NEERI has five zonal laboratories at Chennai, Delhi, Hyderabad, Kolkata and Mumbai.

SMT. **Indira Gandhi**, the then Prime minister of India, rechristened the Institute as National Environmental Engineering Institute (NEERI) in 1974. **250+** numbers of Scientific, technical and administrative staffs remediating the environmental problem in CSIR-NEERI.

**MISSION**  
NEERI would continue providing Innovative and effective solutions for Environmentally Sustainable Development and to help Government, Industry and the society, especially The 800 million underprivileged people of India.

**VISION**  
Leadership in Environmental Science and Engineering for Sustainable development.

Sunil is presenting

14:02

Debdyuti

13:35

bjn-xxpt-fcn

REC

### Waste Produced By Mining Activity

WASTE	DESCRIPTION
SLAG	Slag is the glass-like by-product left over after a desired metal has been separated (i.e., smelted) from its raw ore. Slag is usually a mixture of metal oxides and silicon dioxide.
TAILING	Mine dumps, culm dumps, slimes, tails, refuse, leach residue or slickens, are the materials left over after the process of separating the valuable fraction from the uneconomic fraction of an ore.

Bhumika Bauri left

MINE WATER: Mine water is generated when rock containing sulphidic minerals is exposed to water and oxygen, resulting in the production of acidity and high concentrations of metals and sulphate in the water.


and mine water coming to the slag. Silage is the glass. Like byproduct, which is left over after it. Decide metal has been separating. That is from

Sunil is presenting

13:47

Contd...

- ❖ Leaching
  - Water balance modelling
  - Rigorous monitoring programme
  - Monitoring wells installation in the strategic locations



Sunil is presenting

13:59

CSIR-NEERI: CLIENTELE & STAKEHOLDER

4500+ PROJECTS FOR R&D

**GLOBAL POSITIONS**

Austria
Switzerland
Japan
Australia
Saudi Arabia
France
USA
Czech Republic
UK
Spain
Denmark
Singapore
Netherlands
Israel
Sweden
China
South Africa
Germany
Canada
Republic of Korea
Hong Kong
China
Brazil
Bangladesh
Thailand
Ukraine
Portugal
Finland
Italy
Uzbekistan
Nepal

**States/UTs**

Andhra Pradesh	28
Andhra Pradesh	04
Assam	48
Bihar	30
Chhattisgarh	48
Chennai & UK	06
Delhi	1088
Guj	70
Odisha	462
Madhya Pradesh	48
Haryana	30
Assam & Karnataka	20
Kerala	52
Karnataka	84
Haryana	88
Lakshadweep	12
Madhya Pradesh	154
Maharashtra	660
Mizoram	04
Mizoram	02
Odisha	110
Pondicherry	28
Goa	44
Haryana	122
Tamil Nadu	328
Tamil Nadu	12
Tamil Nadu	12
Uttar Pradesh	160
Uttar Pradesh	128
West Bengal	108

Sunilis presenting

14:02

38%

Debdyuti



# ***Some sample certificates which were given to our participants .***



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## CERTIFICATE OF PARTICIPATION

This is to Certify that Ms. Sagarika Mukherjee, Faculty of Bidhan Chandra College has participated in the One Day National Webinar on “Open Cast Mining and Waste Management Issues and Challenges” organised by the Department of Commerce, Bidhan Chandra College, Asansol, West Bengal, on 11<sup>th</sup> June 2021

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