

## CALL FOR PAPER

Participant authors are invited to submit abstract related to the theme areas of RACEE-2016, not exceeding 250 words in the prescribed format through email to

- s\_sengupta76@yahoo.com
- sukalyanchakraborty@bitmesra.ac.in

## FORMAT FOR SUBMISSION OF ABSTRACT

Title of the Paper: Times New Roman (MS Word-14 fonts, Bold with 1.5 line spacing).

Author's Affiliation and Body of the abstract: Times New Roman (MS Word-12 font, with 1.5 line spacing). Margins can be 1" from all sides.

## REGISTRATION

The deadline for submission of abstract for RACEE-2016 is 20<sup>th</sup> February, 2016. Participants are requested to send their registration form duly filled along with the cheque/demand draft only in favour of "Birla Institute of Technology" payable at Ranchi. The selected abstracts for the seminar will be communicated through email by February 23<sup>rd</sup>, 2016 and will be published in a volume of proceeding in the form of a CD.

## REGISTRATION FEES

|     |   |            |
|-----|---|------------|
| i   | Representatives from industries, NGOs and other sectors | Rs. 3000/- |
| ii  | Faculties   | Rs. 2000/- |
| iii | Students and PhD Scholars                               | Rs.1000/-  |

**Registration fees include Seminar Kit, Lunch and High Tea on Seminar dates.**

## CONTACT PERSONS

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*Vice Chancellor, BIT, Mesra*

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Dr. Sukalyan Chakraborty

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Dr. Jawed Iqbal  
Ms. Neeta Kumari  
Mr. Manimohan



## NATIONAL SEMINAR ON

# RECENT ADVANCES IN CIVIL AND ENVIRONMENTAL ENGINEERING (RACEE - 2016)

(February 25-26, 2016)



**Organized by**

**DEPARTMENT OF CIVIL AND  
ENVIRONMENTAL ENGINEERING**

**Birla Institute of Technology  
Mesra, Ranchi – 835215,  
Jharkhand**



## BIRLA INSTITUTE OF TECHNOLOGY MESRA, RANCHI – 835215, JHARKHAND

### ABOUT THE INSTITUTE

For over six decades, BIT Mesra (located 16 kms from Ranchi, the Jharkhand state- capital) has been engaged in nurturing mind through a rich heritage of academic excellence. Essentially a hub of bustling student activities, the beautiful campus has been a second-home to thousands of students in their journey to challenge the times. Established in 1955 by visionary-industrialist Mr. B. M. Birla, it is today one of the most premier engineering destinations in India.

### ABOUT THE DEPARTMENT

The Department of Civil Engineering was established in the year 1957. It is one of the oldest departments and has the infrastructure and facilities to match with the very best in the country. The department inculcates and imparts knowledge in fields of Buildings, Roads and Highways, Railways, Tunnels and Bridges, Dams and Canals, Docks and Harbours, Airports, Water Supply and Drainage works, Tower Structures and Skyscrapers. The Civil Engineering discipline offers wide scope to students in terms of promising career opportunities and professional advancement.

The Environmental Science & Engineering Group (ESEG), established in the year 2002 has emerged as a potential centre in the field of environment through its dedicated involvement and quality contribution towards education, research & professional services. The Institute had been identified as a State Referral Institute and an MoU was entered between Drinking Water and Sanitation Department, Government of Jharkhand and BIT, Mesra for community based National rural drinking water quality monitoring & surveillance programme.

In May 2014 Department of Civil Engineering and Environmental Science & Engineering Group has been merged together and is presently known as Department of Civil and Environmental Engineering. Currently the Department offers full time B.E. in Civil Engineering and M.E. in Soil Mechanics and Foundation Engineering, M.E. in Structural Engineering and M.Tech in Environmental science & Engineering and PhD Programmes in various disciplines of Civil and Environmental Science and Engineering.

### ABOUT THE SEMINAR

The national seminar RACEE-2016 is an attempt to provide a forum for the exchange of ideas and imbibition of knowledge and expertise between different related research fields of Civil and Environmental Engineering including structures and soil, water resources and environmental engineering, geotechnical engineering, infrastructure and geological engineering, transportation and materials. It aims to bring together the scholars of laboratory research, industrial experience, policy makers and students of related fields to foster interdisciplinary approach towards innovative theories, methodologies, tools and applications for a sustainable tomorrow.

### SEMINAR THEMES

- Civil and Structural Engineering
- Geotechnical Engineering
- Geological Engineering
- Sanitary and Ground Water Engineering
- Ecological and Environmental Engineering
- Environmental Clean Technology
- Environment and Climate Change
- Energy and Environment
- Water Resources Engineering
- Transportation Engineering and Planning
- Green Materials and Green Building
- Sustainable Infrastructure and Development
- Environmental Pollution and Control
- Steel Structures and Bridge Engineering
- Earthquake Engineering

## REGISTRATION FORMAT FOR REGISTRATION

### NATIONAL SEMINAR ON RECENT ADVANCES IN CIVIL AND ENVIRONMENTAL ENGINEERING

(RACEE – 2016)  
(February 25-26, 2016)

1. Name of the Candidate .....
2. Candidate's Affiliation .....
3. Candidate's contact address.....  
.....  
Mobile/Telephone .....
4. Title of Paper .....
5. Details of Cheques/Demand draft.....  
Cheque/Draft Number.....  
Bank.....Date .....
6. Accommodation Required: Yes/ No
7. Candidate's Signature .....

(Signature of Forwarding Authority)

\*\*Travelling expenses will have to be borne by the participants. Accommodation will be provided in the Institute Guest house/Hostels depending upon availability on payment basis.

*One Day*  
*Industry – Academia Interaction*  
*on*

**COAL MINING AND SUSTAINABLE ENVIRONMENT**

*Date: 15<sup>th</sup> March, 2019*

**Convener**

**Dr. Sukalyan Chakraborty**

**Email: [sukalyanchakraborty@bitmesra.ac.in](mailto:sukalyanchakraborty@bitmesra.ac.in)**



*Venue: (R & D Building, Seminar Hall -2)*

**Convener**

**Dr. Bindhu Lal**

**Email: [bindhu@bitmesra.ac.in](mailto:bindhu@bitmesra.ac.in)**



*Organized by:*

**Department of Civil & Environmental Engineering**

**BIT Mesra, Ranchi**

**Funded by TEQIP-III**

## SPONSORSHIP

### Silver :

20000 INR

(The official Logo of Sponsoring agency displayed on Conference Kit , Registration free for 2 representatives).

### Gold :

35000 INR (The official Logo of Sponsoring agency displayed on Conference Kit , Registration free for 4 representatives)

### Platinum :

50000 INR ( The official Logo of Sponsoring agency displayed on Conference Kit and Banners, Registration free for 6 representatives)



CMMES 2017

## ADVISORY COMMITTEE

|                                    |              |
|------------------------------------|--------------|
| Dr. M.K. Mishra, (Vice Chancellor) | :Patron      |
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| Dr. Jawed Iqbal                    | :Member      |
| Ms. Neeta Kumari                   | :Member      |

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BIRLA INSTITUTE OF TECHNOLOGY  
MESRA, RANCHI

### Communicating details:

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## National Conference on

# Construction Management, Mechanization & Environmental Sustainability (CMMES 2017)

Sponsored by TEQIP

February 21-22, 2017

Department of Civil  
&  
Environmental Engineering



BIRLA INSTITUTE OF TECHNOLOGY  
MESRA, RANCHI



CMMES 2017

# CMMES 2017



## About BIT, Mesra

### Vision

“To become a Globally Recognised Academic Institution in consonance with the social, economic and ecological environment, striving continuously for excellence in education, research, and technological service to the National needs. “

For over five decades, BIT Mesra (located 16 km from Ranchi, the Jharkhand state-capital) has been engaged in nurturing minds through a rich heritage of academic excellence. Essentially a hub of bustling student activities, the beautiful campus has been a second-home to thousands of students in their journey to challenge the times. Established in 1955 by the visionary-industrialist Mr. B.M. Birla, it is today one of the most premier engineering destinations in India.

### Fast Facts

- Established in 1955 by Mr. B M Birla. A premier technical institute and deemed University.
- Main Campus Size - 780 acres
- Total number of registered students across all center's more than 10,000. Doctoral students - 150 Programmes offered - Undergraduate, Post- graduate, Doctoral
- Graduate degrees awarded - over 18,000
- Postgraduate degrees offered - over 2500

## About CEE Department

### Vision

"To develop quality intellectuals through education, research and motivation so that they can bring a positive contribution to society in area of Civil & Environmental Engineering"

The Department of Civil Engineering was established at BIT Mesra in 1957. The Environmental Science and Engineering Group was established in 2002. In 2014, Environmental Science & Engineering Department was merged with Civil Engineering Department, and the latter was rechristened as Department of Civil and Environmental Engineering (CEE).

The Department Offers the following programmes:

- BE Civil Engineering
- ME Structural Engineering
- ME Soil Mechanics and Foundation Engg.
- MTech Environmental Science and Engg.
- PhD in various research areas related to Civil Engineering, & Environmental Sciences and Engg.

## ABOUT CONFERENCE

Construction Management pertains to overall planning and coordination of activities within construction projects to achieve resource efficiency, budget adequacy, performance optimization and environmental sustainability.

Construction activities here address constructions for following purposes: agriculture, domestic, commercial, institutional, industrial, heavy civil and environment.

When ever a construction activity is undertaken it results in generation of dust due to movement of heavy machineries and other processes; soil disturbance and loss, landscape degradation, land use changes, modification in natural habitats, wetlands and archeological monuments. Thus it is imperative that any construction activity needs to be adequately managed so that the negative impacts can be minimized and positive impacts are strengthened.

CMMES 2017 aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of Construction Management and Environmental Sustainability. It also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Construction and Project Management.

## Call for Contributions

All honorable authors are kindly encouraged to contribute to and help shape the conference through submissions of their research abstracts, papers and posters on conference themes

### Themes:

- Construction Management: implications and processes
- Project Delivery System
- Legal System: Pros and Cons
- Claim and Disputes
- Building Information Modelling
- Productivity Improvement
- Application Softwares
- Mechanization and Machineries
- Environmental Impact Assessment
- Pollution Abatement and Waste Management
- Sustainable Construction
- Environmental, Social & Economic Sustainability
- Construction Activities: Health and Safety

### Important dates:

|                                   |                      |
|-----------------------------------|----------------------|
| <b>Abstract submission</b>        | <b>:Jan 31, 2017</b> |
| <b>Notification of Acceptance</b> | <b>:Feb 04, 2017</b> |
| <b>Full Paper Submission</b>      | <b>:Feb 10, 2017</b> |

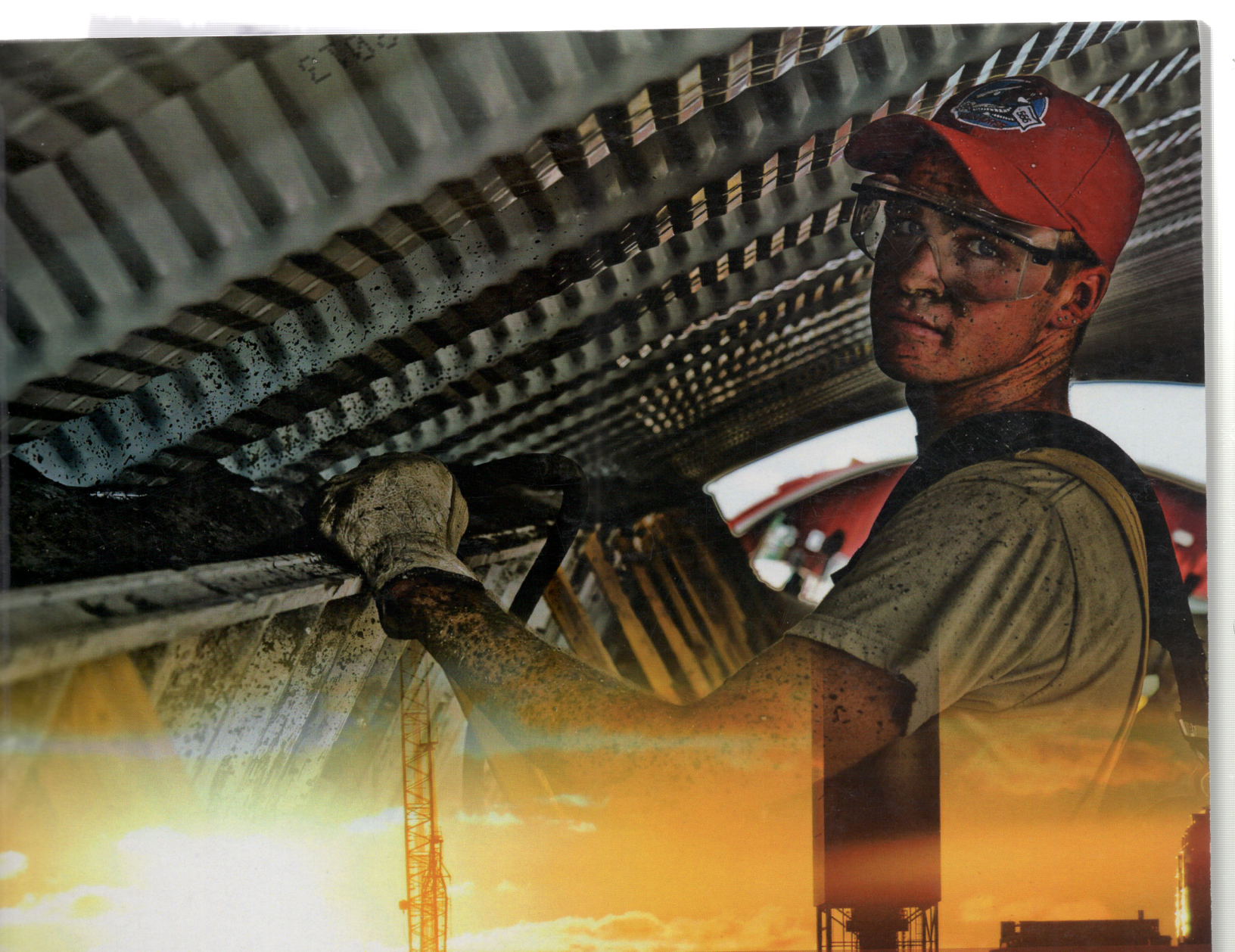
Please mail us your abstracts, full papers, posters and any other queries at: cmmes2017@gmail.com

### Registration :

|   |                   |
|---|-------------------|
| <b>Individual Student Registration</b>          | <b>: 1000 INR</b> |
| <b>Student Group Registration ( 5members)</b>   | <b>: 3000 INR</b> |
| <b>Individual Faculty Registration</b>          | <b>: 2000 INR</b> |
| <b>Individual Industry Representatives/NGOs</b> | <b>: 3000 INR</b> |

*Registration fee includes Breakfast, Lunch and Dinner on Conference dates, & Conference kit. Accommodation will be provided on payment basis.*

Please register by sending a DD in favor of **Birla Institute of Technology, Mesra, Ranchi** to “ Conference Organizing Secretariat-CMMES2017, Department of Civil and Environmental Engineering, BIT, Mesra, Ranchi. PIN: 835215.” Please take care to email us a copy of the DD and keep a photocopy with you to avoid any postal confusions. Please send us your travel plans so that necessary arrangements could be made at our end.



# **CONSTRUCTION MANAGEMENT, MECHANIZATION AND ENVIRONMENTAL SUSTAINABILITY**

**EDITORS:**

**KIRTI AVISHEK, MANI MOHAN, GOPAL PATHAK**

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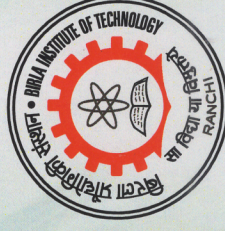
Dr. Sukalyan Chakraborty

Dr. Jawed Iqbal

Ms. Neeta Kumari

# TWO DAYS NATIONAL WORKSHOP ON WATER ENGINEERING

(March 11-12, 2015)



*Organized by :*

**DEPARTMENT OF CIVIL AND  
ENVIRONMENTAL ENGINEERING**

**Birla Institute of Technology**  
Mesra, Ranchi-835215, Jharkhand



## BIRLA INSTITUTE OF TECHNOLOGY

MESRA, RANCHI-835215, JHARKHAND

### ABOUT THE INSTITUTE

For over five decades, BIT Mesra (located 16 kms from Ranchi, the Jharkhand state-capital) has been engaged in nurturing minds through a rich heritage of academic excellence. Essentially a hub of bustling student activities, the beautiful campus has been a second-home to thousands of students in their journey to challenge the times. Established in 1955 by visionary-industrialist and philanthropist Mr. B.M. Birla, it is today one of the most premier engineering destinations in India.

### FAST FACTS ABOUT THE INSTITUTE

Established in 1955 by Mr. B M Birla. A premier technical institute and deemed University.

Main Campus Size - 786 acres

Total number of registered students across all centres - more than 10,000.  
Doctoral students - 150

Programmes offered - Undergraduate, Post-graduate, Doctoral

Graduate degrees awarded - over 18,000

Postgraduate degrees offered - over 2500

### ABOUT THE DEPARTMENT

The Department of Civil Engineering was established at BIT Mesra in 1957. The Environmental Science and Engineering Group was established in 2002 and was merged with the Department of Civil Engineering in 2014. Henceforth the Department was renamed as Department of Civil and Environmental Engineering. Civil Engineering, as a subject includes a wide range of courses on various topics from those that are of general nature to those that are of utility in daily life. Starting from building of homes and other buildings, to construction of all kinds of infrastructure facilities, the scope of civil engineering is truly massive. It offers a wide reach in bright and promising career opportunities and professional advancement. Environmental Science and Engineering is an interdisciplinary research wing open for science and engineering degree holders. It focuses on waste, air, soil, water, ecology, GIS, modeling, ecosystem management, carbon sequestration and various other research activities. Students after completing their course have been placed in various renowned institutions and organizations such as IISc, Bangalore, TERI, New Delhi, IITs, MECO, SESA Goa, and NEERI, Nagpur. The Department is currently growing in the field of research with development of laboratories. It currently has an established weather monitoring station that records selective meteorological data on a daily basis. Facilities of the Department are coordinating and working at International levels with Stanford University, USA; UNEP and IGSNRR, Beijing China, ICIMOD, Nepal, Edit Cowan university, Australia and Taiwan. Department has individual projects worth Rs. 66 lacs and interdepartmental project of Rs. 5 crores.

### ABOUT WATER ENGINEERING

Water is the most important natural resource on which the survival of mankind depends. Water is a renewable resource which benefits from a natural cycle of replenishment; however, engineers, scientists and policy makers often consider it under threat due to its capacity to depletion and degradation. Mankind in general has taken from granted this vital resource. With urbanization and modernization many a times people are not even aware of the sources of water, its optimal usage and conservation and its treatment and recycling. Water engineering thus involves concept, source, allocation, treatment, distribution, recycling and reuse of water. It is not limited to just domestic sector only but has wider applications in industrial, agricultural, and commercial sectors.

In order to fulfill its role in multiple sectors, water engineering is constantly evolving as a discipline. There are high levels of innovation required to work with the water industry. The intensive and extensive usage of water in India and globally requires the throughout availability of water. This can only be achieved through optimal usage, consistent flow, excellent water quality, appropriate treatment and disposal and means for reuse. Through appropriate civil and environmental structures water engineering has achieved its importance in society. However these structures are also at stake due to natural and manmade disasters and pollution. Thus water engineering incorporates ideas and issues pertaining to remedial measures for such events. Civil and Environmental engineers encounter such challenges to resolve the issues to bring forward sustainability.

### WORKSHOP THEMES

- Water demand and use
- Transmission, Storage and Distribution system
- Water sampling, collection and treatment
- Potable Water purification systems
- Industrial/Commercial/Domestic case studies
- Water resource Planning
- Water resource economics and services

### REGISTRATION FEE AND PROCESS

The last date to send the abstract on the themes of the conference is Feb 20th, 2015. The selected abstracts will be communicated by email by Feb 25th, 2015. The last date preregistration is 5th March, 2015. The registration amount should be sent by cheque or demand draft only in favor of "Birla Institute of Technology" payable at Ranchi.

### REGISTRATION FEES

- i. Students and PhD Scholars : Rs. 1000/-
- ii. Faculties : Rs. 2000/-
- iii. Representatives from Industries, NGOs, and other sectors : Rs. 3000/-

Registration fees includes Breakfast, lunch and dinner on Conference dates, and Conference Kit. Lodging can be provided on prior information only.

### FORMAT FOR REGISTRATION

## TWO DAYS WORKSHOP ON WATER ENGINEERING

(MARCH 11-12, 2015)

i. Name of Candidate \_\_\_\_\_

ii. Candidates Affiliations \_\_\_\_\_

iii. Candidates phone and email Id \_\_\_\_\_

iv. Title of Proposed Paper \_\_\_\_\_

v. Details of Cheques/demand draft \_\_\_\_\_

vi. Proposed travel plan \_\_\_\_\_

Expected date of Arrival \_\_\_\_\_

Departure : \_\_\_\_\_

Mode of Travel and details \_\_\_\_\_

vii. Specific Requirements if any \_\_\_\_\_

Accommodation \_\_\_\_\_

Meals: \_\_\_\_\_

Any other \_\_\_\_\_

(Candidates Signature)

(Signature of Forwarding Authority)





#### ORGANIZING COMMITTEE

|                                  |           |
|----------------------------------|-----------|
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| Dr. Anand Kumar Sinha            | :Chairman |
| Dr Indrajit Roy                  | :Convenor |
| Dr.Kirti Avishek                 | :Convenor |
| Dr. Balram Singh                 | :Member   |
| Dr. Anand Kumar Sinha            | :Member   |
| Dr. Sudeshna Chakravorty         | :Member   |
| Dr. Bindhu Lal                   | :Member   |
| Dr. Birender Singh               | :Member   |
| Dr Arun Kumar                    | :Member   |
| Dr Siddharth Sengupta            | :Member   |
| Dr. Koushik Paul                 | :Member   |
| Dr. R. Naresh Kumar              | :Member   |
| Dr. Sukalyan Chakraborty         | :Member   |
| Dr. Tanushree Bhattacharya       | :Member   |
| Dr. Jawed Iqbal                  | :Member   |
| Dr. Neeta Kumari                 | :Member   |
| Mr. Mani Mohan                   | :Member   |
| Dr. Sangeeta Kumari              | :Member   |
| Ms. Jyotsna Pandey               | :Member   |
| Ms. Anusha Rani                  | :Member   |
| Mr. Vikky Masih                  | :Member   |
| Mr. M.K.Diwakar                  | :Member   |
| Mr. Sajal                        | :Member   |

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PH:+918294934737

YOUR LOGO HERE

## TWO DAYS WORKSHOP ON MINE SLOPE STABILITY AND MINE ENVIRONMENT SAFETY (MARCH 21-22, 2018)



ORGANISED BY:  
DEPARTMENT OF CIVIL AND  
ENVIRONMENTAL ENGINEERING  
BIRLA INSTITUTE OF TECHNOLOGY,  
MESRA, RANCHI-835215



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1. BE Civil Engineering
2. ME Structural Engineering
3. ME Soil Mechanics and Foundation Engg.
4. MTech Environmental Science and Engg.
5. PhD in various research areas related to Civil Engineering, & Environmental Sciences and Engg.

## WORKSHOP THEME

1. New Technologies in Open Cast minings.
2. Problems and Solutions of Dragline dump Stability (case studies-Jayant, Khadia and Sasti Mines).
3. Highwall failures due to Un-identified Fault Planes with case studies from Umrer and Juna-Kunada Mines.
4. Landslides in Rajmahal mines.
5. Environmental aspects in Mining areas.
6. Land Reclamation in Mining
7. Mine Closure Plans
8. Corporate Social Responsibilities
9. Rehabilitation and Resettlement policies.
10. Environmental Clearance

## SPEAKERS:

1. PROF. SUBROTA CHOUDHARY:  
FORMER CMD, CMPDI & DIRECTOR  
MINISTRY OF COAL
2. DR. INDRAJIT ROY: BIT, MESRA
3. MR. RANDEEP SINGH: CMPDI
4. MR.V.K.PANDEY: CMPDI
5. MR.P.C.JHA: CMPDI
6. MR. AVIJIT SINHA: CMPDI

## REGISTRATION :

Individual Student Registration : 1000 INR  
Student Group Registration (5 No.s) : 3000 INR

Individual Faculty Registration : 2000 INR

Individual Industry Representatives/  
NGOs :3000 INR

*REGISTRATION FEE INCLUDES, LUNCH AND DINNER ON CONFERENCE DATES, & CONFERENCE KIT.*

*TRAVEL AND ACCOMMODATION WILL ONLY BE PROVIDED FOR INVITED SPEAKERS.*

PLEASE REGISTER BY SENDING A DD IN FAVOR OF **BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI** TO “WORKSHOP ORGANIZING SECRETARIAT, DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING, BIT, MESRA, RANCHI. PIN: 835215.”

PLEASE TAKE CARE TO EMAIL US A COPY OF THE DD AND KEEP A PHOTOCOPY WITH YOU TO AVOID ANY POSTAL CONFUSIONS.

PLEASE SEND US YOUR TRAVEL PLANS SO THAT NECESSARY ARRANGEMENTS COULD BE MADE AT OUR END.