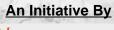






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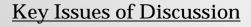




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Document Kit Sponsor



- Advanced Flyash Utilization Technologies
- Policy Bottlenecks and Pollution Control Norms Updated
- New Developments in Products & Machinery
- **Project Funding**
- Future Needs for Handling Materials Flows and Stocks
- Back Filling and Mine Landfill Aftercare
- Unlocking the Potentials of Fly Ash

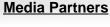












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Introduction

A one day workshop on Fly Ash Utilization – promoting utilization of flyash in four different locations viz, Mumbai, Chennai, Kolkata & Delhi is organized by Mission Energy Foundation in association with Fly Ash Association of India.

The work shop aims at catering awareness among the entrepreneurs, producers, solution providers about the fly ash utilization technologies and the final products. The objective of the workshop is to bring together different stakeholders involved on a common platform to discuss challenges and solutions. Nearly 75% of India's total power generation capacity is thermal, of which coal based power generation is nearly 90% and diesel, wind, gas and steam adding to about 10%. High ash content in the range of 30 to 50% in Indian coal is the major cause for large voluminous quantities of coal ash. India's dependence on coal as a major source of energy had been of prime importance in the past and shall continue in this millennium, and therefore fly ash management would remain an important area of national concern.

Due to increasing environmental concern and growing magnitude of the problem it has become imperative to manage fly ash. More importantly because fly ash has tremendous potential to be utilized. Keeping in view this versatility of fly ash, several Government and NGOs are involved in fly ash utilization and safe disposal efforts in the country.

Types of Coal Ash

Coal ash is the residue of the coal combustion process involved in the thermal power plants. The types of coal ash from coal based thermal power plants are:

(I) Fly Ash

Collected from different rows of electrostatic precipitator

(ii) Bottom Ash

Collected at the bottom of boiler furnace

(iii) Pond Ash

 Mixture of bottom ash and fly ash as available in ash disposal ponds.

Of the total fly ash generated from the thermal power plants nearly 20% is the bottom ash and nearly 80% is the fly ash. Bottom ash and fly ash are sluiced together with water as ash slurry to the ash ponds.





Pond Ash



Properties of Fly Ash

Fly ash as a material is siliceous or aluminous with pozzolanic properties. It is refractory and alkaline in nature, having fineness in the range of 3000-6000 sq.cm./gm. The fine particles of fly ash by virtue of their lightness become air borne.

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Areas of Fly Ash Utilisation

Fly ash can be used for multifarious applications. Some of the major areas of fly ash utilization are as follow:

FLY ASH BRICKS

- Durable
- Low water absorption
- Less consumption of mortar
- Economical and eco-friendly.
- Low energy consumption
- No emission of green house gases.
- CELLULAR LIGHT WEIGHT CONCRETE
- Light in weight (density ranges from 400-1600 kg/m3)
- Better insulation
- · Fire resistant, better acoustic behavior
- · Better workability.

FLY ASH CEMENT

- ROADS, FILLS & EMBANKMENTS
- Light in weight than earth.
- Advantageous in weak/clayey sub-soil
- Lower transportation cost than earth
- Faster rate of consolidation.
- Better compaction characteristics
- High permeability.
- Cost effective & eco-friendly

RECLAMATION OF WASTE LAND

- · Improves permeability status of soil.
- Improves fertility status of soil
- Enhances root proliferation
- · Improves soil texture
- Reduces bulk density of soil
- Improves water holding capacity
- Optimizes pH value
- Improve soil erosion
- Reduces crust formation
- Provides micro nutrients Fe, Zn, Cu, Mo, B, etc.
- Provides macro nutrients K, P, Ca, etc

FLY ASH BASED COMPONENTS FOR CONSTRUCTION INDUSTRY

- · Cost effective & eco-friendly
- PAVEMENT BLOCK
- Durable
- Economic
- · Faster & easy construction

- Self interactive
- Aesthetic

SINTERED AGGREGATE

Substitute for clinker & natural aggregates

WOOD SUBSTITUTE - DOORS & PANELS

- · 100% wood free
- · 5-7 times stronger than wood
- · Resistant to weather, termite, fungus & fire

GRANITE SUBSTITUTE

- Good finish
- Properties comparable to natural granite

CERAMIC TILES

- Less water absorption & firing shrinkage
- Less energy intensive

PAINTS & ENAMELS

- · Less oil absorption
- Corrosion & abrasion resistant
- Durable

PONDS FOR HUMAN SETTLEMENT

- Friendly to flora & fauna
- Abandoned ash ponds can support buildings.
- No settlement
- No significant radioactivity
- Economic use of ash filled land.





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Why you cannot miss this Workshop?

It is a opportunity to have the first hand experience and to listen to the practical tools and tips that can be applied to optimize fly ash utilization and management. Certificate of participation would be provided from Mission Energy Foundation in association with Fly Ash Association for India.

Participant Profile

Regulators, policy makers, mine planners

Policy makers, Senior Executives of Steel, Power, Cement and mining

Companies and producers

· Industries bodies and Business Chambers, research institutes, academia

Mining engineers

Environmentalists working on Fly ash issues

Technocrats and managers of power & mining sectors

Logistic companies, suppliers and all those engaged in the business of fly ash

Generation/Handling

Fly ash by product producers

Construction and real estate companies

Scientists and Faculty

Topics of the Workshop

Session 1: Flyash Utilisation - Policy and Regulation Session 2: Road construction & Building construction

Session 3: Land filling & Mine filing

Session 4: Agriculture & Other developments Session 5: Environment and social concern

Underachievements

Fly Ash	FY11	FY12	FY13
Production	131.09	145.42	163.56
Utilisation	73.13	85.05	100.37
% Utilisation	55.79	58.48	61.37

Source: Central Electricity Authority (CEA)

	FY11	FY12	FY13
Cement	48.50	44.77	41.18
Reclamation in low lying areas	12.73	16.71	11.78
Roads & embankments	11.65	6.51	6.00
Mine filling	8.26	9.10	10.30
Bricks & tiles	6.30	6.86	9.94
Agriculture	1.74	1.03	2.49
Others	10.82	7.38	6.39
Concrete	NA	0.74	1.03
Ash dyke raising	NA	6.89	10.89

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Past Participants

Acid Chem Corporation Ltd

Adani Group Abhijeet Group

Ash Improvement Technology Inc.

Ashtech India

Bajaj Hindustan Limited

Beijing Huanengda

BALCO **BNVNL**

Binani Cement **BLA Industries**

Capital Blocks and Pavers

Tata Group **Deccan Cements**

Deeaar Group DES (Govt. of India) DST (Govt. of India)

Design & Development India

Design Spheres Devesh Bhatt & Co

DOMEX

Ecologic Building Systems

EMCO Energy

Engineers Enterprises

FLSmidth

GE - India Technology Centre

GlaxoSmith

Kline

GMR Group **GNFC Limited**

GETRI

Gujarat Fluorochemicals

GIPCL GNFCL GSECL Gupta Vecor

HESS

High Flyash Cluster

HIL Limited Hindalco

Hira Ferro Alloys Hi-Tech Flyash

HUDCO

Inderjit Power J K Cement Jayaswal NECO

Jayem Manufacturing

JSPL JPL

JK Lakshmi Cement Jubilant Life Sciences Kalpataru Power

KfW-German Development Bank

KJS Concrete Lafarge **LPGCL** Lanco Group

Larsen & Toubro Limited

Lytag

Macawber Beekay Madras High Court Malabar Cements Mangalam Cement Masa Concrete Mecgale Pneumatics Meghmani Finechem Metso Minerals

Ministry of Environment & Forest Ministry of Environment & Forests

Ministry of Coal Ministry of Power

Ministry of Road Transport & Highways

Ministry of Shipping Moserbaer Projects Nabha Power

NALCO

Nav Bharat Ventures Neptune Industries

NTPC OCL India **OPGCL**

Paradeep Phosphates Planning Commission

Raj Westpower Reliance Cement Reliance Infrastructure

Rosa Power

Rubrans Commercial Sahjananda Flyash Shrivali Conmat

SCCL

Strata Geosystems Sumitomo Corporation Talwandi Sabo Power **TATA Chemicals** Tata Consultancy **Durgapur Projects** Times Group UltraTech Cement **UM Power Universal Crescent Power** Usha Building Material **UPRVUNL** Vasavadatta Cement Vedanta Resources Visaka Industries **VSR Minerals** Walchandnagar Industries

Wonder Cement



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Sponsorship Opportunity

Our aim is to deliver you an event that exceeds your expectations, thus becoming an integrated part of your annual marketing program.

Sponsoring this **FlyAsh Utilisation Interactive Workshop** will make your company stand out as a leader in this burgeoning industry and will leave a strong impression of your brand in key decision makers minds. Sponsors have an incredible amount of presence and it will not only give your company optimum exposure but also the opportunity for delegates to meet you and your executives to find out more about your role and business opportunities in the sector.

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SPONSORSHIP INFORMATION

FLYASH UTILISATION WORKSHOP

Registration Form

I Would Like to Attend at:	Fees
 ☐ Mumbai, 11 July 2014 ☐ Chennai, 14 July 2014 ☐ Kolkata, 16 July 2014 ☐ New Delhi, 18 July 2014 	9500/- + Applicable Govt. Taxes

DELEGATE DETAILS

Total Amount (in Rupees): _			
Transaction Reference:		Bank Name:	Date:
Company:			······
		State: _	
Delegate (1):		Job Title:	
Tel:	Mobile:	Fax:	
Email:		Alt Email:	
Delegate (2):		Job Title:	
		Fax:	
		Alt Email:	
		Job Title:	
		Fax:	
		Alt Email:	

(For more than 3 delegates kindly make copies of the registration form)

Please indicate if you have already registered by Phone □ Fax □ Email □ Web □

Please note: If you have not received an acknowledgment before the conference, please call us to confirm your booking.

Payment Terms

Payment is required within 10 working days on receipt of invoice. If a booking is received 10 working days before the conference a credit card number will be taken to confirm your place, likewise if full payment has not been received before the conference date.

- Kindly fill the registration form completely
- Kindly provide with a valid email id for correspondence
- A confirmation of the registration will be sent via email after receipt of the payment
- No refund will be made in case of no-show / no-attendance
- Registration fee is exclusive of service tax as applicable
- Registration fee include lunch, refreshment and conference document/material at the venue.
- It does not include cost of accommodation and travel

Cancellation Policy:

Should a delegate be unable to attend, a substitute delegate from the company is always welcome at no extra charge. Alternatively, for any cancellations, the following rules shall apply

70% refund of registration fee if cancellation is done on or before 20 working days of the schedule

- 50% refund of registration fee if cancellation is done on or before 15 working days of the schedule
- Thereafter, no refunds can be made

Important note:

Please quote the name of the participant and event title on the advice when remitting payment. Bank charges to be deducted from the participation organisation's own accounts. Attendance will only be permitted upon receipt of full payment. It may be necessary for reasons beyond the control of the organisor to alter the content or the event date or location or the identity of the speaker/s.

Way to Register

Phone: 022 65220770/71 022 28103842 Post: 003, B-16, Sector 1

> Shanti Nagar, Mira Road (East) Thane, Maharashtra - 401107

Online: http://flyashworkshop.missionenergy.org

help@missionenergy.org Email:

Group Discount

Mission Energy Foundation recognises the value of learning in terms. Group bookings at the same time from the same company receive discount:

>3 Delegates	5%
>7 Delegates	10%

This offer is exclusive of the early bird discount. Call us for a special discount rate for terms of 10 and above (Not applicable to clinic(s) only bookings).

Payment Methods

By Check/Bank Draft:

All instruments to in favor of

"Mission Energy Foundation" (payable at Mumbai) and sent to, Mission Energy Foundation 003, B-16, Sector 1, Shanti Nagar, Mira Road (East) Thane, Maharashtra 401107 | +91 22 65220770 / 71

By Direct Transfer:

Bank Name: Kotak Mahindra Bank Account Name: Mission Energy Foundation

Account Number: 0111221660 Account Type: Current Account Mira Road (East) Branch Name: Branch Address: E-Wing, Latif Park, Mira Bhayandar Road, Mira Road (E), Thane - 401107

Branch Telephone: +91 22 28120740 / 48 / 49 400485051 MIRC Code: IFSC/RTGS: KKBK0000649

SWIFT Code: **KKBKINBB**

All bank charges to be borne by payer. Please ensure that our bank receives the full invoiced amount.

Date & Venue

Country Inn & Suites

Plot No X- 4/5 - B, TTC Industrial Area, MIDC, Mahape, Shilphata Road, Navi Mumbai -400701. Tel: 022-61594000

http://www.countryinns.com/navi-mumbai-hotelin-400701/indnvmb/area/map

Radisson Blue

No: 531, GST Road, St. Thomasmount, Chennai -16. Tel: 044-22310101

http://www.radissonblu.com/hotelchennai/location

Park Plaza

17 Garcha 1st Lane, Kolkata - 700019. Tel: 033-40409999

http://www.parkplaza.com/kolkata-hotel-wb-700019/indppkb/area/map

Radisson Blue

Plot Number 4, Sector - 13, Dwarka, New Delhi -110075. Tel: 011-30908000

http://www.clubcarlson.com/meetingmap.do?hot elCode=INDDELHI&directions=true