

Juschem Solutions Pvt. Ltd. Presents a much-needed virtual training series on:

“An Insight to Coal Quality Assessment”



An Insight to Coal Quality Assessment provides an understanding of the importance of proper sampling, sample preparation & analysis towards managing coal quality from the exploration to mining and transportation. It also provides an overview of the end-use of coal by the coal users. The virtual training series of 9 hours each emphasizes the need to optimize a coal resource, a product’s specs and correct method of sampling and analysis to deliver optimum consumption to maximize profitability.

This Virtual Training is an ideal introduction for users of the coal, particularly quality professionals or operation or station head senior personnel who need to understand the “bigger picture” behind coal quality. Over the years, coal and GCV balancing has gained much importance due to the reducing coal fired thermal power demand.

The course includes 8-9 Hours of lecturing, discussion and case studies. Training material is also provided which covers the topics addressed during the sessions.

Topics covered

An Introduction to Coal

Coal formation, coal rank, coal type.

Sampling & Preparation

Introduction to standards, Manual sampling, Mechanical Sampling, sample preparations.

Coal Analysis

Coal analytical & its standard practice, laboratory calculations, laboratory quality control.

Case Study

Finding out the reason behind the loss in GCV between as billed, as received and as fired in Power Plant.

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Facilitator



Soumitra Banerjee M.Sc. Applied Chemistry Vice President – Technical

25 years' experience in coal sampling-analysis and Power Plant Chemistry.

Mr. S Banerjee is a seasoned power plant Chemistry and water treatment professional with in-hand experience of about 25 years after passing M.Sc. Applied Chemistry from Government Engineering College, Jabalpur in 1995. He has worked with India's Pioneer Water Treatment Company and with Giant Private Power Generators in India viz. Tata Power, Adani Power, Jindal Power, LPGCL as HOD Power Station Chemistry and Environment. He has both experiences of sub critical and super critical power plants, commissioning-O&M and troubleshooting of Power Station Chemistry Responsibility Area. He has presented many papers on water treatment, power plant chemistry, water management, and Application of IoT in Power Plant Chemistry in national seminars and magazines and also **authored a book "Practical Guide to Thermal Power Station Chemistry"** Mr. Banerjee is the founder of Juschem Solutions Pvt. Ltd., Bangalore, serving on power plant chemistry and water treatment also working as consultant to many companies.

Assisting by



Indranil Gupta MBA, B. Tech

12 years' experience in the field of third party inspection.

Having hands on experience of 12 years in coal sampling & analysis after completing B. Tech in Production Engineering from Haldia Institute of Technology. During this tenure in inspection field, experienced Operation Management in the field of cargo sampling, sample preparation & analysis in Port, different Power & Cement Plants, documentation & QA/QC maintenance of NABL accredited lab. Now he is providing training on coal sampling & analysis, consultancy services towards solutions of trouble shooting of coal sampling & analysis, accreditation of lab from NABL as per ISO/IEC 17025:2017 and also manufacturing Auger Sampler under the name of Genial Solution Meet LLP.

Course Information

When

Any day as decided by corporates

Timing

As decided by Corporates

Venue

Through Microsoft Teams

Fees

Will be communicated on demand.

Registration by

Additional

Course Material in Soft

All enquiries

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Session 1

- Coal & Its formation
- Coal classification
- Purpose of sampling & understanding of lot, sub-lot etc.
- Method of Sampling
- Details of manual sampling as per IS 436; Part-1, Sec-1
- Sampling from conveyor, loaded wagon & stockpile
- Details of mechanical sampling as per IS 436; Part-1, Sec-2
- Falling Stream Breeches Chute type sampler
- Falling Stream Breeches Arm type sampler
- Chain Bucket type sampler
- Scrapper Arm type sampler
- Size reduction apparatus
- Sample Mixture Apparatus
- Sample Dividing Apparatus
- Concept of Auger Sampling as per IS-16143: 2014, Part-3
- Introduction of NABCB Certification (ISO/IEC 17020: 2012)

Session 2

- Sample Preparation
- Methods to determine Total Moisture
- Method of analysis of Proximate as per IS 1350; Part-1
- GCV analysis as per IS 1350; Part-2
- Concept of ADB, ARB & DB analysis
- Methods of Equilibrated basis analysis
- Concept of Ultimate Analysis
- Awareness of AFT

Session 3

- Case Study
- Precautions need to be taken during sampling, Preparation & analysis.
- Question and Answer sessions