



**INDUSTRY APPLICATIONS CHAPTER
THE INSTITUTE OF ELECTRICAL AND
ELECTRONICS ENGINEERS INC
KOLKATA SECTION**



IEEE Technical Lecture

(With the Department of Electrical Engineering, IEST Shibpur)

Topic	USE OF HIGH ALTERNATING CURRENT IN STEELMAKING AND NECESSITY OF REACTIVE POWER COMPENSATOR
Speaker	Mr. Souvik Ray, Deputy Chief Engineer, M. N. Dastur and Co. Ltd.
Date & Time	8th August 2018 (Wednesday); 3 PM – 4:00 PM
Venue	Seminar Hall, Second Floor, Electrical Engineering Department, Indian Institute of Engineering Science and Technology, Shibpur, Howrah – 711103
Contact	Kaushik Mukherjee (kaushikk_mukh@rediffmail.com & Phone (Office): 26684561/62, ext. 594)

About the speaker:

Mr. Souvik Ray completed his graduation in Electrical Engineering from Visveswaraiiah Technical University, Belgaum in 2002 and post graduation from NIT Durgapur in 2004. He joined M. N. Dastur & Co. Ltd. in 2003 and is at present Deputy Chief Engineer there. He has about fifteen years of experience in basic and detailed engineering of power distribution system for steel plants. Mr. Ray has worked as lead engineer in various projects and has been involved in preparation of tender specifications, project reports, power system studies, bid evaluation, scrutiny of vendor drawings, preparation of construction drawings, assistance in installation and commissioning activities. He is a member of IEEE Power and Energy Society.

Abstract of the talk:

Steelmaking through Electric Arc Furnace (EAF) route has emerged as a flexible and easily adoptable process in steel plants. On the other hand, EAF route steelmaking involves consumption of bulk electrical power. This presentation is a brief overview of steelmaking process through AC Electric Arc Furnace (EAF), EAF power characteristics and major power quality issues related to its operation. The typical distribution system for feeding power to EAF, its interconnectivity with grid network and need for installation of dynamic reactive power compensator at steel complex are also discussed.