



Engineering Staff College of India
Autonomous Organ of The Institution of Engineers (India)

Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. TS, India



POWER & ENERGY DIVISION



Workshop on

Selection, O&M and Condition Monitoring of Large Electrical Motors for Industries and Power Plant Applications

18 – 20 January, 2017



(An ISO 9001:2008 Certified, AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Excellence

INTRODUCTION

Process industries and power generation industry needs large amounts motive power for different applications, these drives need to be rugged and energy efficient to provide the needed reliability of service. Induction motors typically meet the heavy duty needs of the industry in a very effective manner. To ensure that these motors operate effectively, the health of the motors needs to be verified through condition monitoring techniques to avoid interruptions. Condition Monitoring of motors is a must for economical and reliable plant operation.

Variable speed drives are another class or drives required for industrial application.

To cater to the needs of larger segment of industries including newclear power plants, we have added new topics of coverage

OBJECTIVES & COURSE COVERAGE

- Basic Principals of Selection & Sizing of Induction motors
- Performance & Testing of three phase Induction Motor addressing issues such as Design, Duty, Selection, Optimization and commissioning activities.
- Sizing of motor large specification, applications and protection systems including Balance of Plant Motors
- Explosion proof and increased protection motors, their application. Operation and maintenance and special application to Sodium pumps. Canned rotors, Flywheel mounted motors
- Condition monitoring techniques
- Valve Actuator Motors
- Energy efficient Motors
- Case studies

METHODOLOGY

The programme will be conducted in an interactive environment providing greater scope for discussions. Emphasis will be on a highly participative style of learning. The classrooms are provided with latest audio – visual teaching aids. The ambience in the campus and classrooms facilitate an effective learning by participants.

FACULTY

Apart from Core Internal Faculty, Eminent experts from Nuclear and industry, Consulting Firms, Government Organisations, Manufacturing, Academic and Research Institutions etc. will address and share the sessions.

TARGET PARTICIPANTS

Nuclear / Electrical / Instrumentation Engineers from Nuclear, Power & Allied Installations, Manufacturing and Power Generating Plants

PROGRAMME VENUE, DATES & TIMINGS

Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachi Bowli, Hyderabad - 500032, Telangana, India.

DATES

18 – 20 January, 2017, 3-days

TIMINGS

On the first day registration will commence at 0900 Hrs. On all other days the programme timings will be from 0945 to 1715 hrs with breaks in between for tea and lunch.

COURSE DIRECTOR

A Chandra Mohana Rao

Head I/c & Sr. Faculty - Power & Energy Division, ESCI

RESOURCE PERSONS

Mr. R Bhiksham – Station Director (Rtd.), NPCIL, DAE

Mr. M S N Sastry – Director (Engineering & Projects) (Rtd.), HWB, DAE

Mr. A Rama Koteswara Rao – Ex.(Chief Engineer) AP Transco.

Mr. J Srinivasan – Managing Director, Power House Ensol Pvt.Ltd.,

COURSE FEE

Residential Fee is Rs.15,000/- per participant. Residential fee includes Course Material, Course Kit, and Twin-sharing / Single AC accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks.

DISCOUNTS

Non-Residential Fee: 10% discount on course fee is allowed for non-residential participants.

Group Discount: 10% discount for three or more participants if sponsored by the same organization.

(All discounts are applicable only if fee is received at ESCI a week before the commencement of the programme)

Service Tax @ 15% is to be paid extra over and above the training fee. ESCI's **Service Tax Registration No** AAATT3439QST008 (under commercial training or coaching services – clause 65(105) (ZZC) of Finance act – 1994). **PAN Card No.** AAATT3439Q;

The course fee is to be paid in favour of “**IE (I) – ENGINEERING STAFF COLLEGE OF INDIA**” in the form of demand draft payable at Hyderabad.

Alternatively the payment may be made by **Electronic Fund Transfer (EFT) to ESCI – SB A/c No. 10007111201** with The SBI, PBB Rajbhavan Road Branch, Khairatabad, Hyderabad – 500 004 by **NEFT / RTGS / IFSC Code No: SBIN 0004159 – MICR No: 500002075**. While using EFT method of payment, please ensure to communicate us your company name, ESCI invoice reference and programme title.

Online registration is available on ESCI website. To register, manually please send your nominations (**10 days** prior to date of commencement of the programme) giving details of name, designation, contact address, email address, mobile number, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to:

Head, Power & Energy Division

Engineering Staff College of India

Gachi Bowli, Hyderabad – 500 032

Phone: 040 – 6555 3370 / 3371 / 3372, Fax: 040 - 23000336

Email:pe.esci@gmail.com / pe@escihyd.org; Website: www.escihyd.org

CERTIFICATE: A certificate of participation will be awarded to each participant on conclusion of the programme.

GENERAL INSTRUCTIONS

- ESCI encourages participants to present case studies from their respective organizations.
- For the convenience of the outstation participants ESCI will facilitate pickup and drop from Airport / Railway Station / Bus Stations, if travel plans are received at least 3 days in advance along with mobile number by fax or email. The charges shall be paid by the participants directly to the cab driver.
- ESCI provides complimentary accommodation to participants a day prior to the commencement and after the conclusion of the programme. (Check in at 12:00 hrs a day prior to the commencement & check out at 12:00 hrs a day after completion of the programme)
- Overstay charges of @ Rs.990/- per day / per head including hospitality (Bed Tea / Coffee to Dinner) will be charged.
- Well developed Information Centre and Internet facilities are available to the participants free of cost.