



Confederation of Indian Industry

Interactive and Corrosion Problems Oriented; Training and Refresher Course

# Corrosion Management in Industries

9.30 – 1730 hrs. | Tuesday – Wednesday: 16 – 17 July 2019 | Venue: Fortune Park Galaxy, N.H. No 8, GIDC, Vapi

In Association With...



Federation of Industries Associations



Silvassa Industries Association



Silvassa Industries and Manufacturers Association



D&NH Industries Association



Umargam Industries Association

## Corrosion: An Unnecessary Threat to Economic Growth



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### **A. Background**

Corrosion is the key area of concern in the World Economy . In addition to causing severe damage and threats to public safety , corrosion disrupts operations & quality of products and requires extensive repairs & replacement of failed assets. These expenses can be brought down to half if good corrosion management practices are followed; this offers a huge opportunity to save cost and also enhance the life of products, plant & machinery, and civil structures.

The global cost of corrosion is estimated to be US\$2.5 trillion, which is equivalent to 3.4% of the global GDP (2013). By using available corrosion control practices, it is estimated that savings of between 15 and 35% of the cost of corrosion could be realized; ie. Between US\$375 and \$875 billion annually on a global basis. These costs typically do not include individual safety or environmental consequences. Through near misses, incidents, forced shutdowns (outages), accidents, etc., several industries have come to realize that lack of corrosion management can be very costly and that, through proper corrosion management, significant cost savings can be achieved over the lifetime of an asset.

To achieve the full extent of these savings, corrosion management and its integration into an organization's management system must be accomplished by implementing a Corrosion Management System (CMS).

The success of initiatives like TPM, Quality, and Energy etc have been possible as every industry/Organization has a team or representative on these subjects, who undertakes implementation of good practices in order to improve product quality, reduce energy consumption, reduce maintenance cost, increase productivity etc.

### **B. Present Status of Corrosion Management**

In the competitive industrialization world, corrosion is the biggest problem of industries, infrastructure, etc. The cost of corrosion is not just financial. Beyond the huge direct outlay of funds to repair or replace corroded or decaying structures are the indirect costs (Natural resources, potential hazards, and lost opportunity).

Organizations have realized that larger impact of corrosion is due to lack of awareness about corrosion, lack of management focus and lack of technical know how about corrosion and corrosion technology. In order to achieve maximum benefit in reducing corrosion cost (both direct and consequential) needs integration of corrosion decisions and practices within an organizational management system.

### **C. How this Training and Refresher Course is different than others?**

**As against various such programmes, this programme will address the real plant related problems in the field of maintenance, process, design and queries of project engineers. We have structured with cores topics, within available time frame, to orient participants to their *nightmare* corrosion problems to control before it happens, to earn benefits of uninterrupted streams days with high safety factors, controlled pollution and conserve resources of an unit.**

#### D. Target Sector

From across the sectors (PSUs, Industry, Institutions, R & D, Public Infrastructure, appliances etc.) as Corrosion affects each and every industry sector & public infrastructure like;

- ✓ Agri Machinery & Construction Equipment
- ✓ Automotive & Auto Component sector
- ✓ Cement, Chemicals and Fertilizer
- ✓ Chlor-Alkali
- ✓ Food & Beverages
- ✓ Mining, Metals sectors- Steel Production, Aluminium, Carbon steel, Stainless steel
- ✓ Pharmaceutical
- ✓ Paper, Power Plants
- ✓ Refinery & Petrochemicals
- ✓ Railways infrastructure & Railroads
- ✓ Shipping & Marine Transport
- ✓ Sugar & Distillery
- ✓ Textile etc.

#### E. Faculty for the program

- Corrosion Experts within India
- Corrosion Technology & Service provider

#### Key Speakers

**Dr G H Thanki**, Director, Corrosion Control and Monitoring Consultancy, with > 45 years of experience in corrosion management, is the **Principal Faculty** to address the audience to understand and infer the corrosion related issues.

Speaker Name	Designation	Company Name
Mr. Dhruvesh Shah	India Representative	Vector Corrosion Technologies - Canada
Mr Hemish Kapadia	Water Treatment Specialist	Neo Nir Engineering
Mr Mihir Sheth	Coating Inspector	Sheth Group of Industries, India

#### F. Participant Profile

- Senior & Middle Level Managers
- Project Engineers & Managers
- Quality Assurance Managers
- Design Engineers & managers
- Maintenance personnel & Engineers
- Production personnel & Engineers
- R & D personnel and Engineers
- Quality testing personnel and Engineers

## G. Detailed Description of Interactive and Ground Corrosion Problems Oriented Training and Refresher Course Content

Sr. No	Theme: Corrosion Management in Industry
1	CORROSION MANAGEMENT PLANNING : <i>CORROSION CONTROL ASSURANCE</i>
2	CORROSION BASICS AND CORROSION MANIFESTATION
3	CORROSION CONTROL IN ENGINEERING DESIGN
4	METALLURGICAL ASPECTS OF CORROSION
5	PAINT & COATING: <i>FIRST LINE OF DEFENSE TO ATMOSPHERIC CORROSION</i>
6	PREVENTION OF CORROSION OF STEEL REINFORCEMENT IN CONCRETE STRUCTURES
7	INDUSTRIAL COOLING WATER TREATMENT TO CONTROL CORROSION, SCALING, FOULING AND MIC
8	CATHODIC PROTECTION
9	AN OVERVIEW ON CORROSION & ITS SIGNIFICANCE IN INDUSTRIES

## H. Registration Fee per Delegate

CII Members / IGBC / YI / IWN Rs. 6000*	Non - members Rs. 8000*	Fee is exclusive of GST @ 18% / Program is non - residential
FIA / SIA / SIMA / DNHIA / UIA Rs. 6000* (Registration Certificate Copy to be produced)	Group Discount: 10% for 3 to 5 nominations   15% for 6 to 9 nominations   20% for 10 and above nomination from same organization.	

## I. Certification

Certificate of participation will be provided to Every Delegate.

**For Registration & Further details, please Contact**

**Confederation of Indian Industry  
Southern Gujarat Zone**

C/O. Anupam Rasayan India Ltd. 710 / SNS Business Park,  
Udhana – Magdalla Road, Surat – 395007

**Kanu Baldaniya**

**Ravindar Dehru**

Mob: 09727788118 / Mail: kanu.baldaniya@cii.in

Mob: 09727337377 / Mail: ciisurat@cii.in