

Special Issue On

**CORROSION CONTROL,
MITIGATION
&
CATHODIC PROTECTION
SYSTEM**



Mr. Sundar Kataria

Established in 1989, Electro Corr-Damp Pvt. Ltd. (ECD) is a premier provider of cathodic protection technologies, offering a wide spectrum of comprehensive design and engineering services, as well as

complete cathodic protection solutions across India. We deliver a full array of services, including material supply, installation, testing, commissioning, monitoring, maintenance, post-commissioning surveys, and total project management.

ECD provides advanced corrosion control solutions for oil and gas production and transportation systems throughout India. Our corrosion management system integrates cutting-edge laboratory techniques and best-in-class field applications to help our valued customers protect their assets and the environment.

We support your goals of asset preservation and environmental protection. Our relentless pursuit of new technologies and techniques is grounded in the understanding that corrosion prevention is integral to integrity management. This focus improves the reliability and safety of your operations, reduces costs, and delivers a competitive advantage in a rapidly evolving industry. ECD is forward-thinking, always advancing, and constantly evolving. Our extensive resources and state-of-the-art research, development, and testing capabilities ensure optimal results.

We believe the best solutions for corrosion problems come from a team-oriented approach, where our experienced personnel, innovative and practical technology, unwavering service commitment, and clear communication work seamlessly together to boost your performance and profitability.

CATHODIC PROTECTION SYSTEM

The cathodic protection system is a key component in effective and efficient corrosion prevention technology.

ELECTRO CORR DAMP

CMD

- ♦ Selection of CP system materials and equipment
- ♦ CP system engineering design and execution
- ♦ Impressed current/sacrificial cathodic protection systems
- ♦ Inspection and testing of CP systems on-site
- ♦ CP system management and in-service inspections
- ♦ Supply of CP materials
- ♦ Coating surveys (CIPL, CAT, DCVG/ACVG, Soil resistivity)
- ♦ AC-DC interference surveys and mitigation
- ♦ Internal corrosion monitoring
- ♦ External Corrosion Direct Assessment (ECDA) and Internal Corrosion Direct Assessment (ICDA)

VARIOUS APPLICATION

- ♦ Cross-country pipelines
- ♦ Plant pipelines
- ♦ Mounded bullets
- ♦ Underground vessels
- ♦ Above-ground tanks of various types
- ♦ Jetties & Offshore structure
- ♦ Sub sea pipelines
- ♦ Reinforced concrete structures

CORROSION PROTECTION

- ♦ Design & Detail Engineering
- ♦ Monitoring & Maintenance of CP Systems
- ♦ Supply of CP Materials
- ♦ Installation of SACP & ICCP System
- ♦ Testing & Commissioning of Cathodic protection System.

Corrosion leads to the deterioration of material properties due to environmental reactions, such as metals losing electrons when exposed to water and oxygen. The economic impact of corrosion is significant, accounting for at least 2-4% of the gross national product, with 25% of this loss preventable through proper corrosion-control technology

KEY PROTECTION MEASURES

- ♦ Introducing electrical current to buried pipes to minimize metal loss.
- ♦ Protecting above-ground storage tanks from corrosion to prevent leaks.
- ♦ Employing advanced coatings and cathodic protection systems for mounded bullets.
- ♦ Implementing preventive maintenance and scheduled inspections to detect and mitigate corrosion damage.
- ♦ Utilizing corrosion monitoring programs to optimize maintenance intervals.

ECD's leadership in corrosion engineering is unmatched. Our engineering team develops cost-effective solutions tailored to specific project requirements, offering services that may include:

PRE - INSTALLATION TESTING & DIAGNOSTIC ENGINEERING

- ♦ Soil surveys and corrosion diagnostics for underground structures
- ♦ Material analysis and equipment evaluation
- ♦ Cathodic protection system audits
- ♦ Preliminary corrosion mitigation measures
- ♦ Preliminary CP system design
- ♦ Corrosion analysis for process equipment, vessels and tanks
- ♦ AC mitigation studies and stray current investigations

DESIGN

- ♦ SACP & ICCP cathodic protection systems
- ♦ AC-DC current mitigation systems
- ♦ Corrosion monitoring solutions

INSTALLATION

- ♦ Sacrificial Anode Cathodic Protection (SACP) systems
- ♦ Impressed current cathodic protection (PCP) systems
- ♦ AC-DC mitigation solutions
- ♦ Internal corrosion monitoring systems

POST-INSTALLATION ENGINEERING

- ♦ Testing and commissioning of CP System
- ♦ Troubleshooting
- ♦ As-built drawings and documentation
- ♦ Ongoing monitoring and maintenance
- ♦ CP system health checks
- ♦ Panel meter calibration
- ♦ Coating repair

PIPELINE INTEGRITY MANAGEMENT

ECD helps to develop the pipeline integrity management regulations and provides consulting services e.g.

- ♦ Close Interval Potential Survey (CIPL)
- ♦ Current Attenuation Test (CAT)
- ♦ Direct Current Voltage Gradient Survey (DCVG)
- ♦ Alternating Current Voltage Gradient Survey (ACVG)
- ♦ Soil resistivity survey and analysis
- ♦ AC-DC interference survey
- ♦ External & Internal Corrosion Direct Assessment (ECDA & ICDA)
- ♦ Long range ultra sonic testing (LRUT)



SUPPLY & IN-HOUSE MANUFACTURING

- ♦ Modern day Cathodic Protection calls for a wide range of Cathodic Protection Material & Equipment.
- ♦ ECD assists you as a one point solution to all your cathodic protection equipment & materials needs.
- ♦ ECD can help you to source / supply a wide range of cathodic protection equipment & material as Under

CATHODIC PROTECTION TRANSFORMER RECTIFIER UNIT

- ♦ High quality automatic and manual transformer rectifier unit (TRUs) for cathodic protection application to buried structures, storage tanks at storage terminals / refineries and cross country pipelines.
- ♦ TRUs are rugged in construction, designed to withstand harsh condition in which they operate.

RANGE AND TYPES OF TR UNITS

- ♦ **AC Operated Transformer Rectifier Unit**
Input Supply : Single Phase Or Three Phase
Output Supply : Upto 100 V DC And 1000 Amps DC
- ♦ **DC Operated CPPSM Unit**
Input Supply : Up To 18V DC
Output Supply : Up To 50V DC & 50Amps DC
- ♦ **AC/ DC Operated Rectifier Unit**
Input Supply : Single Phase / Three Phase AC Supply
Or Upto 48V DC Supply
Output Supply : Upto 50V DC & 50Amps DC

ANODES

- ♦ **ICCP Anodes**
- ♦ **High Silicon Cast Iron Anodes**
- ♦ **Mixed Metal Oxide Anode**
Strip anodes, rod anodes, tubular anodes, ribbon anodes & mesh anodes of different dimensions & rating to suit your requirements.
- ♦ **Sacrificial Anodes**
Low potential & high potential magnesium alloy anode Zinc anodes for application in marine environments
- ♦ **Zinc Ribbon Anodes**

CABLE & WIRES

- ♦ Single & multi core, PVC / PVC, XLPE / PVS, HMWPE, kynar, FRLS cable for DC applications
- ♦ Copper & aluminum conduction steel / GI wire factory fitted tail cable of required length for soil application

REFERENCE ELECTRODES

- ♦ Portable & permanent Cu / CuSO₄ RE along with factory fitted tail cable of required length for soil application
- ♦ Portable & permanent Ag / AgCl re & Zinc RE for soil & water application

JUNCTION BOXES

- ♦ Various junction boxes like anode junction boxes, cathode junction boxes, Power Distribution Boards 7 test station used in CP system
- ♦ IP xx rating & suitable for gas group II A / B classifications
- ♦ With internal shunts, resistors custom designed to the requirements

SPECIAL EQUIPMENT LIKE

- ♦ Surge Diverters
- ♦ Polarization / Kirk Cells
- ♦ Corrosion Coupons
- ♦ ER Probe
- ♦ Solid State Decoupler Device

ANODE BACKFILL MATERIALS

- ♦ Backfills with high carbon content and low contact resistance
- ♦ Backfill materials for ICCP anodes (Petroleum Coke Breeze) & sacrificial anodes (Gypsum, Bentonite & Sodium Sulphate)
- ♦ Backfill material supplied with canisters & cotton bags



Mr. V. T. Purohit

ELECTRO CORR DAMP

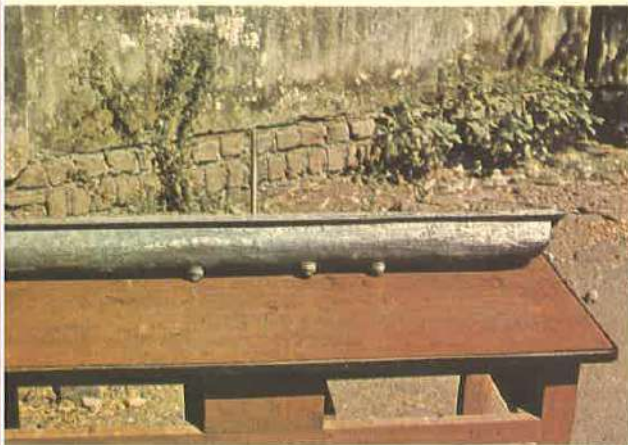
Electro-Corr Damp was founded by Mr. V. T. Purohit in the year 1954, the first Cathodic Protection System Company of India with the birth of ICCP, Impressed Current Cathodic Protection System by introduction of latest technology in tough working environment. There was no proper logistics and cathodic protection equipments and instruments available in the country that have to be imported.

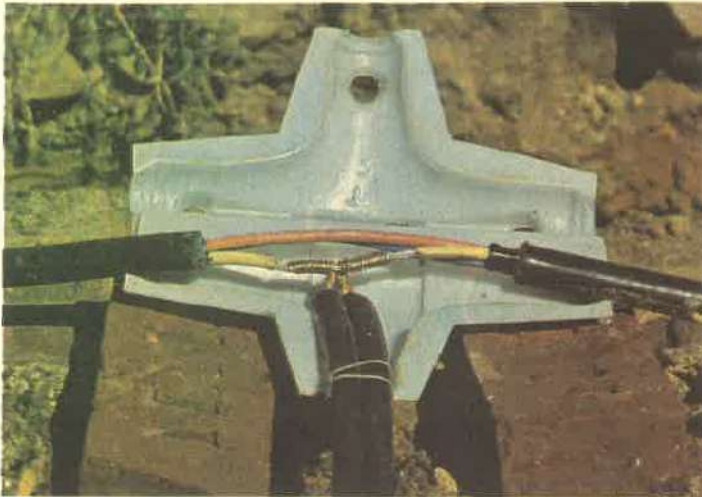
The CP system in early fifties was in fancy state since it was great challenge to design, procure, construct, install and commissioning of ICCP system for submarine pipelines across Bucher Island (now Jawari's island)

Mr. V. T. Purohit is electrical engineer and graduated from Institute of Electrical Engineers (UK). He has accomplished many projects as cathodic protection systems for oil & gas installations & facilities water supply pipeline systems and refineries etc. He is also founder Chairman of NACE, India section and contributed number of technical papers of CP system during CORCON, International conference.

He was kind enough to handover above organization to International Certification Services and believed in Dr. Sundar Kataria's commitment and professionalism to continue and sustain ECD journey towards its future development and growth.

He is recipient of "Life Time Achievement Award" from NACE for his valuable contribution for corrosion and cathodic protection system.

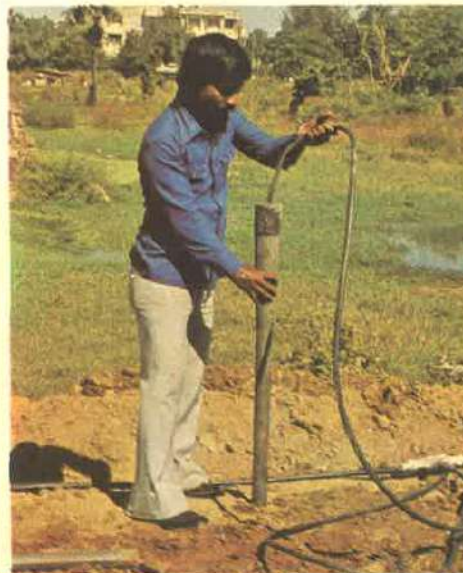




A Stage in anode bed construction, anodes are laid horizontally in a backfill of coke breeze



Anode Bed Installation in Urbanised area

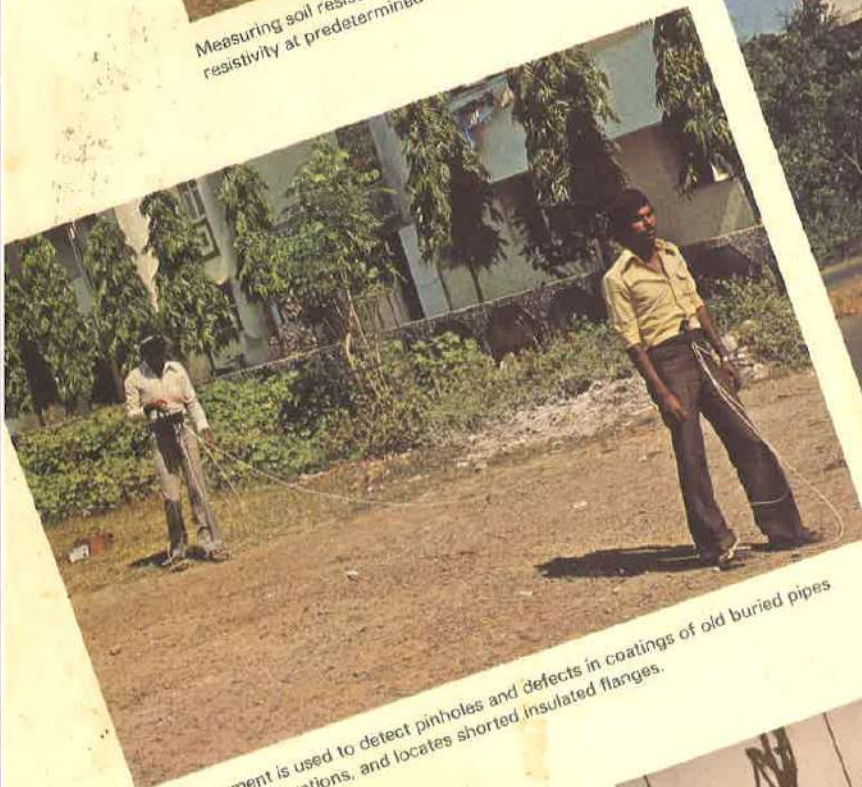




Measuring soil resistivity by 4 pin Wenner method. This arrangement is wired so that resistivity at predetermined depths can be measured with one setting.



A junction box arrangement specially constructed for Submarine pipelines anode bed.



This instrument is used to detect pinholes and defects in coatings of old buried pipes without any excavations, and locates shorted insulated flanges.



Method is used to locate Unknown or Lost pipes or Armoured Cables and locates shorted Insulated Flanges.



A Lead Antimony anode being lowered with duplicate connections and an anchor.



Mr. Ajeet Singh

CATHODIC PROTECTION

General Manager- ECD

"Protect with Precision, Preserve with Purpose — Quality in Every Connection."

– Ensuring corrosion control through vigilant design, accurate installation, rigorous testing, and consistent monitoring.

Cathodic Protection (CP) is a corrosion control technique used to protect metal structures by making the metal the cathode in an electrochemical cell.

This is achieved by connecting the structure to a more negative sacrificial anode, or by applying a direct current(DC) from an external source. The goal is to make structure negatively charged, preventing it from corroding.

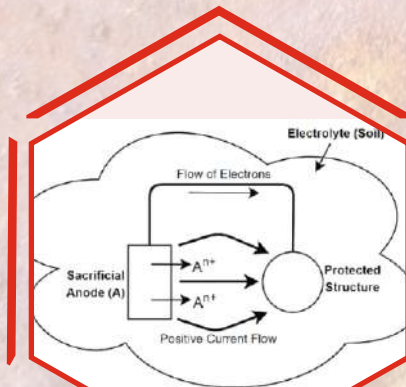
Types of Cathodic Protection

1.Sacrificial Anode CP (Galvanic)

- 1.Uses more reactive metals (like magnesium, zinc, or aluminum) connected to the pipeline.
- 2.These anodes corrode instead of the pipeline.
- 3.Ideal for short pipelines or low-resistivity soil.

2.Impressed Current CP (ICCP)

- 1.Uses a power source (rectifier) to drive current from an inert anode (e.g., MMO, graphite, silicon iron) to the pipeline.
- 2.Suitable for long pipelines and higher resistance soils.
- 3.Allows greater control over current levels.



Key Components

- Anodes – Sacrificial or impressed current types.
- Rectifier – Converts AC to DC in ICCP systems.
- Test Stations – Allow voltage, current, and potential measurements.
- Cables & Junction Boxes – For connecting and monitoring the CP system.
- Reference Electrodes (e.g., Cu/CuSO₄) – Used to measure pipe-to-soil potential.

Design Considerations

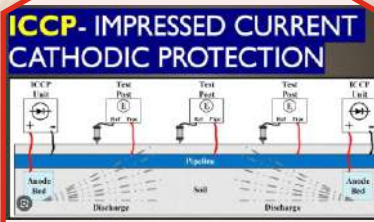
- Soil Resistivity
- Pipeline Coating Quality
- Current Requirement
- Stray Current Interference (e.g., nearby railways)
- Distance Between Test Stations

Monitoring & Maintenance

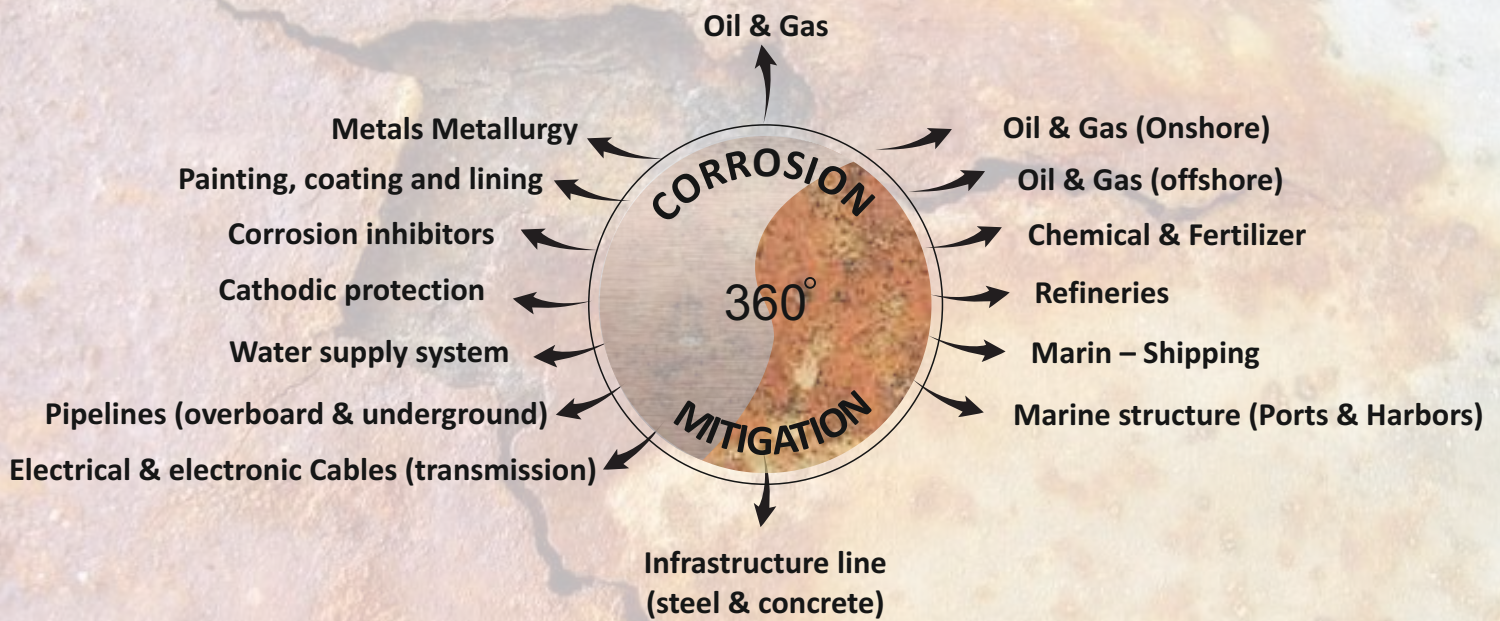
- Regular Potential Surveys
 - Ensure protection levels are within standards (e.g., -850 mV to -1200 mV vs Cu/CuSO₄).
- Close Interval Potential Surveys (CIPS)
- Direct Current Voltage Gradient (DCVG) Surveys
- Anode & Rectifier Inspections
- Data Logging and Remote Monitoring Systems

Standards and Guidelines

- NACE SP0169 / SP0490 – Cathodic Protection criteria and procedures.
- API 1632 / 651 – CP for underground and tank systems.
- ISO 15589-1 & 2 – CP for buried and offshore pipelines.



Jung se Jung tak



Corrosion Problems, Design, Controls, Monitoring Mitigation



Mr. Asadullah Khan

COATING SURVEY

Deputy Manager - ECD

A coating survey of a pipeline is an inspection process used to assess the condition and integrity of the protective coating applied to a pipeline. This coating is crucial as it prevents corrosion and extends the pipeline's service life. The survey can be part of routine maintenance or conducted before/after repairs or construction.

Purpose of Coating Survey

- Detect coating defects like disbondment, holidays (missed coating spots), cracks, or degradation.
- Evaluate the effectiveness of the coating system.
- Identify areas needing repair or recoating.
- Support integrity management programs.

Types of Coating Surveys

1. Visual Inspection

- Checks for visible damage like cracking, peeling, or rust stains.
- Conducted above ground or on exposed sections.

2. Holiday Detection (Holiday Testing)

- Uses a high-voltage or low-voltage detector to find pinholes or voids in the coating.
- Commonly done on new coatings before backfilling.

3. DCVG (Direct Current Voltage Gradient) Survey

- Evaluates coating condition by measuring voltage gradients in the soil around the pipeline.
- Used on buried pipelines to locate coating defects.

4. CIPS (Close Interval Potential Survey)

- Measures pipe-to-soil potential at close intervals to assess cathodic protection effectiveness and detect coating damage.

Key Steps in a Coating Survey

Preparation

- Review pipeline documentation and previous inspection records.
- Plan access to pipeline sections (exposed, buried, or underwater).

Inspection

- Perform visual checks and apply NDT (non-destructive testing) methods as needed.
- Use appropriate survey technique based on coating type and pipeline environment.

Data Collection & Analysis

- Document defects, coating thickness, and environmental conditions.
- Analyse for patterns or signs of accelerated degradation.
- Create detailed report with maps, photos,





Mr. Sundar Kataria

Mumbai Mahanagar Water Supply Corrosion & Cathodic Protection System

CMD

There are total 4 major lakes that supplies fresh water mainly from Bhatsa, Vihar, Tulsi, Tamsa and Vaitarna, supplied through number of pipelines. Apart from there are more than 2500 water tankers supplying water using underground sources to high rise buildings, hotels, malls and government establishments to cater ever growing need of Mumbai. Greater Mumbai has nearly 1.5 crores of total population with floating population of 25-30 lakhs visiting every days for business and tourism.

Mumbai's water distribution system covers network of pipelines which is major source of water supply. Greater Mumbai Mahanagar Corporation is actively working to run, maintain the pipeline infrastructure, including design, installation, lying new pipelines in suburban areas.

Today Mumbai has nearly more than 3000kms of water supply networks of pipelines which is divided in the eastern and western suburbs. Number of pipeline network from Tamsa lake and Bhatsa lake have been very old in service, since early seventies that requires regularly repairs and maintenance of pipelines, including addressing leaks and replacement of old infrastructure. Most of the pipelines are underground and gets damaged due to development of new town infrastructure, corrosion affects disrupts in pipeline operations such as leaks or repairs that leads to temporary water supply cuts.

Water supply department of Mumbai is responsible for the supply of water, its purification and proper supply and distribution including repairs and maintenance.

MCGM: Municipal Corporation of Greater Mumbai is the governing civil body of Mumbai, the capital city of Maharashtra. BMC: Brihanmumbai Municipal Corporation has vast network of pipelines distributing portable water to Greater Mumbai covering city and suburban areas. The pipeline network includes both pipelines and tunnels with number of water supply pipeline scheme utilizing Surya Regional Water Supply scheme. Vaitarna project Mumbai existing water supply distribution system is a network of more than 3000kms of pipeline. The Hydraulic Engineering Department of MCGM is responsible for the water supply. The water is completely treated with pre-chlorination, alum-dosing settling, filtration and post-chlorination before supplying to consumer of large population of Mumbai which amount to more than 4000 million litres per day (MLD). The positive pressure of 1kg to 1.5kg/cm² is maintained depending on the supply zones, topography and requirements. The pipelines are of M. S. Pipes of diameter 2400mm which was largest and longest pipeline laid in the world. The tunnel size is 3000mm diameters running from Bhandup to Malad reservoir and further upto Charkop having 13kms and 12kms respectively. The distribution network has been laid and upgraded over the past nearly 150 years.

The water supply pipeline system Mumbai is supervised, monitored and controlled by SCADA Supervisory Control and Data Acquisition.

These old pipeline systems are over stressed, hence burst and leakage are taking place sometime that interrupts the water supply.

The main sources of municipal water include large wells, lakes, rivers, or reservoirs. Before municipal water is sent to storage facilities, the water is treated and processed to remove most of the impurities before use.

In order to prevent corrosion, internal as well external overboard and underground pipelines are adequately protected. Internally pipeline are coated with cement slurry lining and externally exposed to atmosphere are painted to prevent atmospheric corrosion damage that is being painted on regular intervals. Whereas underground pipelines are coated to coat enamel coating, since underground pipeline is prone to corrosion damages due to poor / damaged coating caused due to underground galvanic corrosion. Therefore, underground pipelines are provided with cathodic protection system to make the pipeline anodic so as current does not flow from the pipeline to the ground to prevent ionic loss. However there is great challenge to maintain the cathodic protection of the pipeline network requires electric uninterrupted power supply and 24 x 7 maintenance, control and monitoring. Another main failure of the underground pipeline is due to nearby presence of other installation in the same corridor like electrical cables, service pipelines; electrical earthing and steel structures are possess major threat to the pipeline due to electrical interference, induced voltage and short circuit etc.



CORROSION PREVENTATION AND CATHODIC PROTECTION ENGINEER WILL PLAY A VITAL ROLE TO PREVENT FAILURE BURST & LEAKAGE OF WATER SUPPLY NETWORK OF MCGM LIFELINE. TO CONTINUE & SUSTAIN SUPPLY OF POTABLE WATER – LIFE LINE.



Mr. Ankit Pandey

INTERNAL CORROSION MONITORING

Assistant Manager - Admin

What is Internal Corrosion Monitoring?

Internal corrosion monitoring involves detecting, measuring, and analyzing corrosion that occurs on the interior surfaces of equipment and pipelines due to contact with corrosive fluids (like water, acids, gases, or oil mixtures).

Why It's Important:

- Prevents leaks and failures.
- Extends equipment life.
- Ensures operational safety.
- Helps optimize chemical treatments (e.g., inhibitors).
- Supports regulatory compliance.

Common Corrosion Mechanisms:

- Uniform corrosion: Even material loss across surfaces.
- Pitting: Localized attack forming pits or holes.
- Microbiologically Influenced Corrosion (MIC): Caused by bacteria.
- Galvanic corrosion: Occurs when two different metals are in contact.
- Erosion-corrosion: Accelerated by high flow rates or particulates.

Methods of Internal Corrosion Monitoring:

1. Intrusive Monitoring: 51. Intrusive Monitoring:

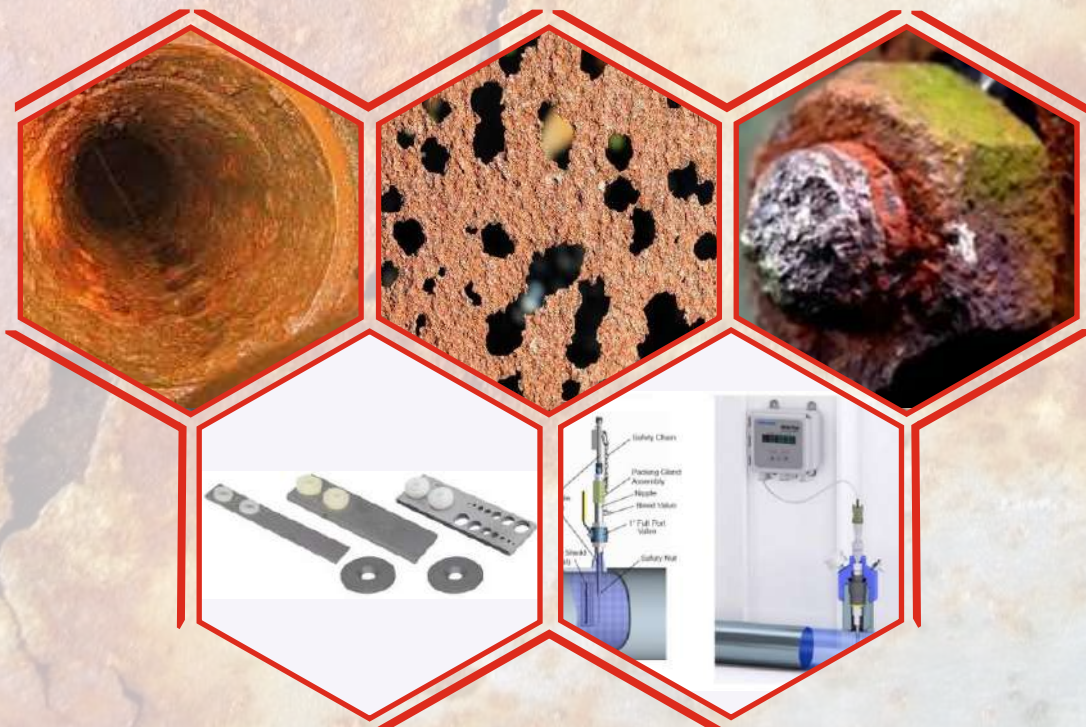
Devices that are inserted into the pipeline or vessel to directly measure corrosion effects.

a) Corrosion Coupons:

- Metal strips made of the same or similar material as the equipment.
- Installed inside the system, later removed and analyzed for weight loss.
- Simple and inexpensive.

b) Electrical Resistance (ER) Probes:

- Measure the change in resistance of a thin metal element as it corrodes.
- Good for both aqueous and non-aqueous systems.
- Provides near-real-time data.



c) Linear Polarization Resistance (LPR) Probes:

- Apply a small electrical potential and measure current response.
- Only works in conductive (usually water-based) systems.
- Offers real-time corrosion rate data.

d) Hydrogen Probes:

- Monitor hydrogen gas penetration due to corrosion.
- Useful in detecting hydrogen-induced cracking.

2. Non-Intrusive Monitoring:

External techniques that infer internal corrosion without entering the system.

e) Ultrasonic Thickness Measurement (UTM):

- Measures wall thickness using sound waves.
- Detects wall thinning due to internal corrosion.

f) Guided Wave Ultrasonics:

- Useful for long-range scanning of pipelines.
- Detects corrosion under insulation or along buried lines.

g) Radiography (X-ray, gamma ray):

- Shows wall loss or corrosion pits inside pipes or tanks.

h) Magnetic Flux Leakage (MFL):

- Detects metal loss in ferromagnetic materials.
- Common in tank floor inspections.

3. Online Monitoring Systems:

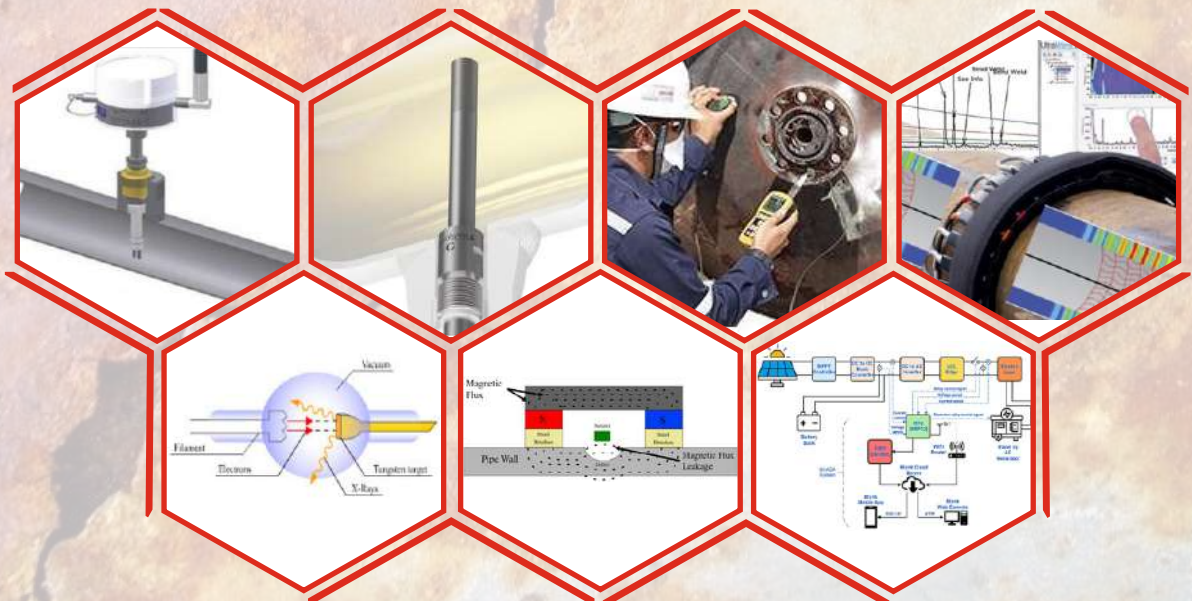
- SCADA-integrated systems that collect and transmit real-time corrosion data.
- Combine sensor data with software analytics.
- Help with predictive maintenance and quick response.

Data Analysis and Reporting:

- Data from these systems is analyzed to determine corrosion rates (usually in mils per year or mm/year).
- Helps identify high-risk areas and trends over time. Used to adjust corrosion inhibition programs or change process parameters.

Challenges:

- Proper probe placement is critical.
- High cost of continuous monitoring systems.
- Harsh conditions can damage sensors.
- Requires skilled interpretation.



Word Search

Corrosion

W O E I I E X R Y H W B Z A X T J F V L T K T T
G W M B L H Z A I T L Z J W Q A U Z I R M B P O
I O I O S O S R G Y U N M N B A B R Y V E D P W
X Z F P Q Q N P Z E D E J A E P O F Q U K A R D
J Q X L R X I L F Y O B O R A F Y Z B H T U L X
Y Q O S Z F X B B M G W F I S Q K D Q M U Q X V
H H T C L P Q J R A N X N U I F J E H R L D L K
K Y H M S R H M V O I T C K J E K O I L T X G B
A M K U W Y C O G B L H Y R S K O X Y G E N Y M
I D J J G C W Q U S I J R E L I W J U Q T A O G
J T X B T H L V Y Z O W I H A N I V R Q Q O X R
M G Z X Z L L Y V V B Z M H T G V W H Y K R T D
A N E L J D A D C Q K G V J E S G O H W I E E N
Q I Q O N X P Z I L A T E M M Z R Y S A U J K O
G T O X H I D O J R Y W L E N D W F Y D U Z J I
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I U K D G Q Y L Q C G N U V N F E B U R I A A O
O R N E V B M K V X K A X F B A Y C F J D T I R
W R S H I M B Z V B B Q Y M U I N I M U L A X R
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Q H K T M B W Z P B G P D V Z F A E G T J X I C
A L L R A T U G E A S R J D V L N R Q Y S M K M
M V A I G W T I I A R W Y Z V A Y B P L A L R O
U P H C V P C I C C V P P S Q X V Y J C L Q P Z

aluminium

Corrosion

nonmetal

boiling

rusting

oxygen

Metal

oxide

paint

water

iron

oil



June Month Birthday's- 2025



Sr. No.	Emp. Name	Station	Emp. Dob
1	Dinesh Pujari	ICS-MNGL-Pune	1-Jun
2	Dipak Patil	ICS-MGL Steel	1-Jun
3	Munendra Kumar	ICS-IGL New Delhi	1-Jun
4	Pareshkumar Bhoi	ECD-Gail Survey	1-Jun
5	Pritom Gogoi	ICS-ONGC-ASSAM	1-Jun
6	Priyakant Kapadiya	ICS-ONGC-WADU	1-Jun
7	Rajendrakumar Patel	ICS-ONGC-WADU	1-Jun
8	Rutvik Chauhan	ICS-ONGC-Mehsana	1-Jun
9	Samadhan Shelar	Nasik-ICST	1-Jun
10	Sanjay Mahajan	Pune	1-Jun
11	Shiv Kumar	ICS-IGL New Delhi	1-Jun
12	Vipulkumar Prajapati	ICS-VENDOR	1-Jun
13	Manpreet Singh	New Delhi	2-Jun
14	MD Kamran Hasan	ICS-MGL Steel	2-Jun
15	Shashank Patil	ICS-MGL Steel	2-Jun
16	Yogesh	ICS-IGL New Delhi	2-Jun
17	Sneha Raut	Mumbai-Marketing	2-Jun
18	Alok Tiwari	ICS-IGL New Delhi	3-Jun
19	Rahul Tambe	ICS-Assure - Forensic	3-Jun
20	Yogesh Chandekar	Mumbai-CO	3-Jun
21	Vishal Akade	ICS-MNGL-Pune	3-Jun
22	Arun Tigiripalli	ICS-ONGC-Rajahmundry	4-Jun
23	Mohan Lal	ICS-IGL New Delhi	4-Jun
24	Pappu Shah	ICS-IGL New Delhi	4-Jun
25	Dilys Solanki	ICS-Assure	5-Jun
26	Dr. Saanvi Bobhate	ICS-Assure - Health	5-Jun
27	Krishnakumar M	ICS-ISRO Chennai	5-Jun
28	Ranjitkumar Mukherjee	ICS-MGL Steel	5-Jun
29	Sandeep Godambe	ICS-Assure - Health	5-Jun
30	Kiran Kumar Patel	ICS-ONGC-Mehsana	6-Jun
31	Mamata Das	Training centre	6-Jun
32	Shabith K	ICS-ONGC-Offshore	6-Jun
33	Sanjay Kumar Soni	ICS-ONGC-Bokaro	7-Jun
34	Parth Patel	ICS-ONGC-Mehsana	8-Jun
35	Ankit Sharma	ICS-IGL New Delhi	9-Jun
36	Chiragkumar Patel	ICS-ONGC-Mehsana	9-Jun
37	Karthik .	ICS-ONGC-Cauvery Asset	9-Jun



June Month Birthday's- 2025



Sr. No.	Emp. Name	Station	Emp. Dob
38	VENKATESAWARLU	ICS-Reliance Ro Project	9-Jun
39	Kote Raju .	ICS-ISRO Hyderabad	10-Jun
40	Krisan Kumar Gupta	ICS-ONGC Dehradun	10-Jun
41	Prashant Kumar Pandey	ICS-IGL New Delhi	10-Jun
42	Suneel Kumar Kartheka	ICS-ONGC-Rajahmundry	10-Jun
43	Siddhesh Bandal	ICS-Assure - Health	10-Jun
44	Nikhil Tapadia	Mumbai-CertCell	11-Jun
45	Keshav Kumar Barot	ICS-ONGC-WADU	12-Jun
46	Atul Kumar	Mumbai-ECD	13-Jun
47	Md Mojammil Alam	ICS-ONGC-WADU	13-Jun
48	Vaibhav Khadtar	Mumbai-Finance	13-Jun
49	Subhashchandra Patel	ICS-ONGC-Mehsana	13-Jun
50	Iqbal Rakhangji	Mumbai-InspCell	14-Jun
51	Abhijeet Kakde	ICS-MNGL-Pune	15-Jun
52	Amit Kumar Sinha	ICS-IGL New Delhi	15-Jun
53	Jayakumar E	Mumbai-InspCell	15-Jun
54	Mahabir Singh	ICS-IGL New Delhi	15-Jun
55	Mohd Azhar Shaikh	Mumbai-InspCell	15-Jun
56	Vinaykumar Patel	Surat	15-Jun
57	Chandraban Veerayan	ICS-ONGC-Cauvery Asset	16-Jun
58	Pulidindi Srinivas	ICS-ONGC-Kakinada	16-Jun
59	Sumant Prasad	ICS-VENDOR	17-Jun
60	Harshit Yadav	ICS-ONGC-Offshore	18-Jun
61	Dr. Lalita Borge	ICS-Assure - Health	19-Jun
62	Anil Pate	ICS-Assure - Reconstruction	20-Jun
63	Balabhadra Nanda	ECD-IOCL	20-Jun
64	Darshnkumar Darji	ICS-ONGC-Mehsana	21-Jun
65	Edward - Matumbwe	Uganda	22-Jun
66	Hari Krishna Neeli	ICS-ONGC-Rajahmundry	22-Jun
67	Yogesh Halde	ICS-Assure - Health	23-Jun
68	Bappa Saha	ICS-ONGC Tripura	24-Jun
69	Sanjeev Kumar Dev	Ausadha	24-Jun
70	Anup Deshmukh	ICS-Reliance Ro Project	25-Jun
71	Mahendra Shelke	Mumbai-InspCell	25-Jun
72	Nadeem Saiyed	ICS-ONGC-Ankleshwar	25-Jun
73	Dhaval Nayak	ICS-ONGC-Mehsana	30-Jun
74	Nalluri Yoganand .	ICS-IOCL RO South	30-Jun

Horoscope Month of May - 2025



Aries

With Saturn entering your sign on May 25, it's a pivotal time to embrace responsibility and long-term planning. The Scorpio Full Moon on May 12 may prompt deep emotional insights, encouraging you to release past burdens. The Gemini New Moon on May 27 offers a fresh start in communication and learning for you.



Taurus

Mercury's entry into your sign on May 10 enhances your communication skills, making it an excellent time for negotiations. The Full Moon on May 12 may highlight relationship dynamics, urging balance between personal needs and partnerships. The New Moon on May 27 encourages financial planning and value assessment.



Gemini

Your energy and communication skills are amplified as the Sun enters your sign on May 20, followed by Mercury on May 26. The New Moon on May 27 is particularly potent for setting personal goals and initiating new projects. Use this time to focus on self-expression and learning.



Cancer

The Scorpio Full Moon on May 12 brings emotional depth, possibly highlighting creative or romantic aspects of your life. Saturn's move into Aries on May 25 may prompt you to take a more structured approach to your career ambitions. The Gemini New Moon on May 27 encourages introspection and spiritual growth.



Leo

Mars continues to energize your sign, boosting confidence and drive. The Full Moon on May 12 may bring attention to home and family matters, urging balance between personal and professional life. The New Moon on May 27 is favorable for networking and pursuing long-term goals.



Virgo

The Scorpio Full Moon on May 12 may reveal insights into your communication patterns, encouraging clarity and honesty. The Gemini New Moon on May 27 focuses on your career and public image, making it an opportune time to set professional intentions. Saturn's entry into Aries on May 25 emphasizes the need for financial planning and resource management.

Horoscope Month of May - 2025



The Full Moon on May 12 may prompt you to reassess your financial situation and personal values. The Gemini New Moon on May 27 encourages exploration and learning, possibly through travel or education. Saturn's move into Aries on May 25 highlights the importance of commitment and structure in relationships.



The Full Moon in your sign on May 12 brings personal revelations and opportunities for transformation. The Gemini New Moon on May 27 focuses on shared resources and deep emotional connections, making it a good time to address joint finances or intimacy issues. Saturn's entry into Aries on May 25 emphasises the need for discipline in daily routines and health matters.



The Scorpio Full Moon on May 12 may bring subconscious patterns to light, encouraging healing and release. The Gemini New Moon on May 27 focuses on partnerships, making it an ideal time to set intentions for relationship growth. Saturn's move into Aries on May 25 emphasizes the importance of commitment in creative projects and romantic endeavors.



The Full Moon on May 12 highlights your social circles and community involvement, prompting you to evaluate your connections. The Gemini New Moon on May 27 encourages the establishment of healthy routines and work habits. Saturn's entry into Aries on May 25 brings focus to your home and family life, urging you to create a solid foundation.



Pluto's retrograde in your sign beginning May 4 initiates a period of self-reflection and transformation. The Scorpio Full Moon on May 12 may bring career matters to the forefront, encouraging you to reassess your professional path. The Gemini New Moon on May 27 is favourable for creative pursuits and self-expression.



The Scorpio Full Moon on May 12 may inspire you to explore new philosophies or educational opportunities. The Gemini New Moon on May 27 focuses on your home and family life, making it a good time to set intentions for domestic harmony. Saturn's move into Aries on May 25 emphasises the need for financial discipline and resource management.

ICS Festival Greetings



सुर्यांश

Training & Convention Center (Residential), Palghar, Maharashtra.



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