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# STRUCTURAL INTEGRITY

## ENGINEERING PVT. LTD.

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We Make Your Structures Strong & Durable



[info@structuralintegrity.in](mailto:info@structuralintegrity.in)



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## ABOUT US

- Newly established Structural Asset Integrity & Durability Engineering company in Hyderabad by Dr. Ehtesham and Engr. Saleem to serve Indian & Middle East markets
- Dr. Ehtesham & Engr. Saleem have 30+ years' experience in the Middle East in Infrastructure, Oil & Gas, Petrochemical, Industrial & Private Sectors
- We help asset owners to reduce risk and enhance reliability and safety by protecting and extending the service life of their structures

## STRUCTURES WE COVER

### Infrastructure

(Buildings, bridges, culverts, pipelines, roads, railways, seaports, water & wastewater treatment plants, dams, canals, irrigation systems, parking structures, basements & others)

### Industrial Sector

(Equipment foundations, cooling towers, pipelines, pipe racks, pipe supports, canals, seawater intake & return structures, storage tanks & others)

### Other Structures

(Structures damaged by fire, earthquake and heritage structures)

## WHY CLIENTS TRUST OUR EXPERTISE

- ✓ **30+ Years of Specialized Experience**  
Extensive involvement in assessment, repair & cathodic protection
- ✓ **SME is Ph.D. in Concrete Durability**  
Expertise in concrete deterioration mechanisms, service-life prediction, and performance-based repair strategies
- ✓ **SME is Certified Cathodic Protection Specialist (CP4 – NACE)**  
Advanced capability in CP system design for reinforced concrete structures
- ✓ **Diagnosis Before Prescription**  
We emphasize scientific investigation and root-cause analysis before recommending repair or protection measures
- ✓ **Independent & Objective Advice**  
Consultancy-driven solutions focused on long-term asset performance, not product sales

# OUR CORE SERVICES

**STRUCTURAL  
DESIGN**

**STRUCTURAL  
HEALTH  
ASSESSMENT**

**REPAIR &  
REHABILITATION**

**DURABILITY  
DESIGN**

**CATHODIC  
PROTECTION**



## STRUCTURAL DESIGN & STRENGTHENING

- Structural design and detailing of residential villas, multi-story and high-rise buildings
- Structural design and detailing of commercial buildings (hospitals, schools, office buildings)
- Structural design and detailing of infra projects (bridges, culverts, roads, highways, water treatment plants, sewage treatment plants, coastal protection)
- Structural design and detailing for industrial structures (steel sheds, platforms, pipe racks, pipe supports, equipment foundations, silos, jetties, berths, sub-stations, retaining walls)
- Structural audit of new and repaired structures to ensure safety
- Structural assessment of existing concrete structures affected by reinforcement corrosion, fire, earthquake and aging
- Structural assessment of steel structures (gantry cranes, pipe supports, pipe racks, portal frames, trusses, shells, warehouses)
- Structural strengthening of RCC structures required due to change in use, loads and additional floors (buildings, for addition in loads, change of use, extensions and addition of floors)
- Structural assessment & strengthening of Heritage structures
- We use different techniques for structural strengthening, such as Concrete Jacketing, CFRP Wrapping, External Post-tensioning & Steel Plate Bonding

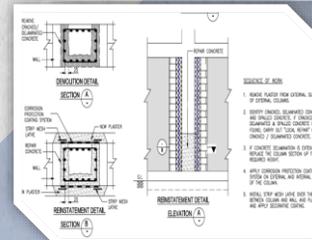
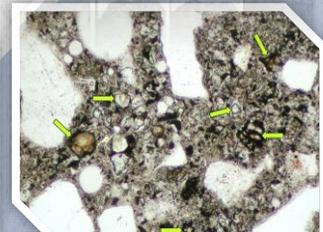
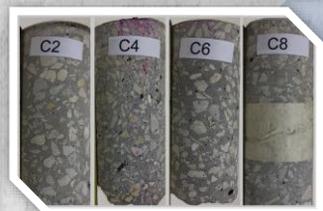
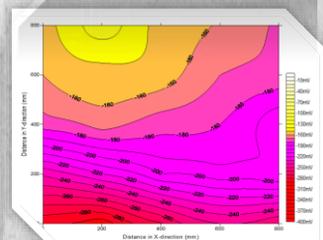
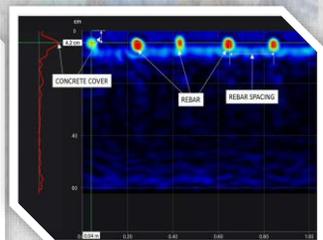


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## HEALTH ASSESSMENT

- Health audit/assessment of residential, commercial, industrial and heritage structures
- Preliminary field inspection to assess the need for detailed investigation
- Detailed Condition Assessment involves locating extent of deterioration, extracting concrete cores for chloride profile and pH, cover, corrosion potential mapping, corrosion rate, concrete resistivity, carbonation depth, GPR imaging and other corrosion tests
- Detailed Structural Assessment involves rebound number, cover, GPR imaging, ultrasound pulse velocity, extracting cores for compressive strength testing & structural analysis
- After the investigation, we issue:
  - **Assessment Report** comprising causes and extent of deterioration, remaining service life, remaining structural capacity and repair techniques
  - **Repair Design Report** including detailed procedures to restore structural capacity and extend service life of the structure
  - **Tender Document** for repair & protection including Scope of Work, BOQ, Specifications & Drawings



CONTENTS	
1. INTRODUCTION	1
2. SCOPE OF WORK	1
3. REFERENCES	1
4. ABBREVIATIONS	1
5. LIST OF FIGURES	1
6. LIST OF TABLES	1
7. METHODOLOGY	1
8. APPROVALS	1
9. EXECUTION	1
10. CONCLUSION	1
11. APPENDICES	1
12. GLOSSARY	1
13. INDEX	1
14. CONTACT INFORMATION	1
15. REVISIONS	1
16. APPROVALS	1
17. DISTRIBUTION LIST	1
18. PROJECT INFORMATION	1
19. CLIENT INFORMATION	1
20. PROJECT LOCATION	1
21. PROJECT DESCRIPTION	1
22. PROJECT OBJECTIVES	1
23. PROJECT SCOPE	1
24. PROJECT DELIVERABLES	1
25. PROJECT RISK	1
26. PROJECT SCHEDULE	1
27. PROJECT BUDGET	1
28. PROJECT TEAM	1
29. PROJECT CONTACTS	1
30. PROJECT DOCUMENTS	1
31. PROJECT RECORDS	1
32. PROJECT CLOSEOUT	1
33. PROJECT EVALUATION	1
34. PROJECT LESSONS LEARNED	1
35. PROJECT ARCHIVE	1
36. PROJECT REVIEW	1
37. PROJECT FEEDBACK	1
38. PROJECT IMPROVEMENT	1
39. PROJECT SUSTAINABILITY	1
40. PROJECT COMMUNITY ENGAGEMENT	1
41. PROJECT TRANSPARENCY	1
42. PROJECT ACCOUNTABILITY	1
43. PROJECT ETHICS	1
44. PROJECT INTEGRITY	1
45. PROJECT HONESTY	1
46. PROJECT FAITHFULNESS	1
47. PROJECT COURAGE	1
48. PROJECT RESPECT	1
49. PROJECT KINDNESS	1
50. PROJECT PATIENCE	1
51. PROJECT HUMILITY	1
52. PROJECT GRACE	1
53. PROJECT MERCY	1
54. PROJECT COMPASSION	1
55. PROJECT GENTLENESS	1
56. PROJECT MILDNESS	1
57. PROJECT MEANNESS	1
58. PROJECT MEEKNESS	1
59. PROJECT MODESTY	1
60. PROJECT SIMPLICITY	1
61. PROJECT SINCERITY	1
62. PROJECT INTEGRITY	1
63. PROJECT JUSTICE	1
64. PROJECT FAITHFULNESS	1
65. PROJECT PROMPTNESS	1
66. PROJECT ORDER	1
67. PROJECT CLEANLINESS	1
68. PROJECT PEACE	1
69. PROJECT KINDNESS	1
70. PROJECT MERCY	1
71. PROJECT COMPASSION	1
72. PROJECT GENTLENESS	1
73. PROJECT MILDNESS	1
74. PROJECT MEANNESS	1
75. PROJECT MEEKNESS	1
76. PROJECT MODESTY	1
77. PROJECT SIMPLICITY	1
78. PROJECT SINCERITY	1
79. PROJECT INTEGRITY	1
80. PROJECT JUSTICE	1
81. PROJECT FAITHFULNESS	1
82. PROJECT PROMPTNESS	1
83. PROJECT ORDER	1
84. PROJECT CLEANLINESS	1
85. PROJECT PEACE	1
86. PROJECT KINDNESS	1
87. PROJECT MERCY	1
88. PROJECT COMPASSION	1
89. PROJECT GENTLENESS	1
90. PROJECT MILDNESS	1
91. PROJECT MEANNESS	1
92. PROJECT MEEKNESS	1
93. PROJECT MODESTY	1
94. PROJECT SIMPLICITY	1
95. PROJECT SINCERITY	1
96. PROJECT INTEGRITY	1
97. PROJECT JUSTICE	1
98. PROJECT FAITHFULNESS	1
99. PROJECT PROMPTNESS	1
100. PROJECT ORDER	1
101. PROJECT CLEANLINESS	1
102. PROJECT PEACE	1
103. PROJECT KINDNESS	1
104. PROJECT MERCY	1
105. PROJECT COMPASSION	1
106. PROJECT GENTLENESS	1
107. PROJECT MILDNESS	1
108. PROJECT MEANNESS	1
109. PROJECT MEEKNESS	1
110. PROJECT MODESTY	1
111. PROJECT SIMPLICITY	1
112. PROJECT SINCERITY	1
113. PROJECT INTEGRITY	1
114. PROJECT JUSTICE	1
115. PROJECT FAITHFULNESS	1
116. PROJECT PROMPTNESS	1
117. PROJECT ORDER	1
118. PROJECT CLEANLINESS	1
119. PROJECT PEACE	1
120. PROJECT KINDNESS	1
121. PROJECT MERCY	1
122. PROJECT COMPASSION	1
123. PROJECT GENTLENESS	1
124. PROJECT MILDNESS	1
125. PROJECT MEANNESS	1
126. PROJECT MEEKNESS	1
127. PROJECT MODESTY	1
128. PROJECT SIMPLICITY	1
129. PROJECT SINCERITY	1
130. PROJECT INTEGRITY	1
131. PROJECT JUSTICE	1
132. PROJECT FAITHFULNESS	1
133. PROJECT PROMPTNESS	1
134. PROJECT ORDER	1
135. PROJECT CLEANLINESS	1
136. PROJECT PEACE	1
137. PROJECT KINDNESS	1
138. PROJECT MERCY	1
139. PROJECT COMPASSION	1
140. PROJECT GENTLENESS	1
141. PROJECT MILDNESS	1
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145. PROJECT SIMPLICITY	1
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147. PROJECT INTEGRITY	1
148. PROJECT JUSTICE	1
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150. PROJECT PROMPTNESS	1
151. PROJECT ORDER	1
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153. PROJECT PEACE	1
154. PROJECT KINDNESS	1
155. PROJECT MERCY	1
156. PROJECT COMPASSION	1
157. PROJECT GENTLENESS	1
158. PROJECT MILDNESS	1
159. PROJECT MEANNESS	1
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163. PROJECT SINCERITY	1
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165. PROJECT JUSTICE	1
166. PROJECT FAITHFULNESS	1
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168. PROJECT ORDER	1
169. PROJECT CLEANLINESS	1
170. PROJECT PEACE	1
171. PROJECT KINDNESS	1
172. PROJECT MERCY	1
173. PROJECT COMPASSION	1
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207. PROJECT COMPASSION	1
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216. PROJECT JUSTICE	1
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218. PROJECT PROMPTNESS	1
219. PROJECT ORDER	1
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501. PROJECT MODESTY	1
502. PROJECT SIMPLICITY	1
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## REHABILITATION RETROFITTING

- We know the mechanisms of deterioration, rehabilitation and protection of reinforced concrete structures. Our SMEs have extensive experience in rehabilitation & retrofitting
- We provide complete investigate, design and build services for deteriorating structures
- We carry out rehabilitation & retrofitting to make the deteriorating structure *stronger and last longer* and to comply with current codes of practice
- We cover all types of structures including:
  - Structures affected by reinforcement corrosion
  - Structures suffering premature deterioration due to poor construction quality
  - Fire damaged structures
  - Blast damaged structures
  - Earthquake damaged structures
  - Parking garages and basements
  - Heritage structures
  - Any other concrete structure



BEFORE



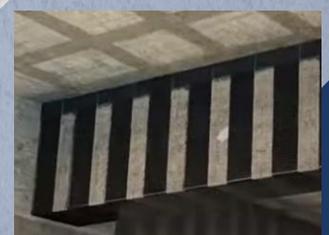
AFTER



BEFORE



AFTER



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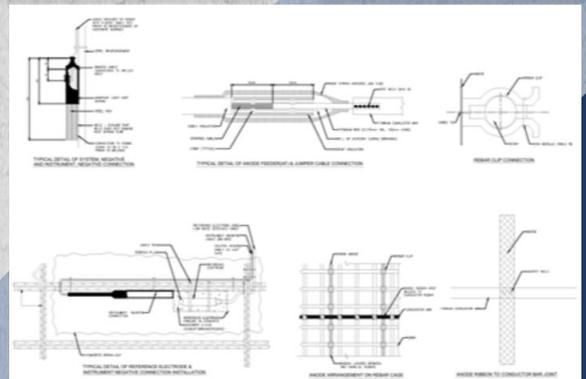
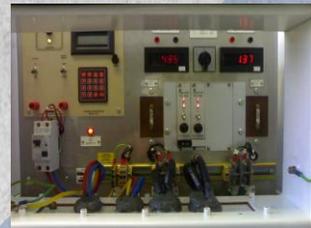
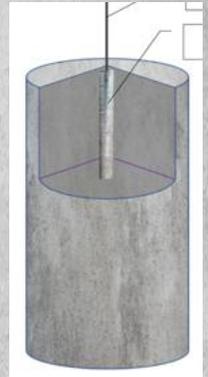
## CATHODIC PROTECTION

### Scope of Services

- Pre-design survey
- System design and engineering
- Materials supply
- Installation, testing and commissioning
- Pre and post commissioning reports
- Monitoring and maintenance
- Interference surveys and mitigation
- Troubleshooting and mitigation
- Upgrading existing systems

### Structures Covered

- Reinforced concrete structures
- Pipeline (carbon steel, PCCP, CCP)
- Tanks bottom
- Tanks internal
- Jetties
- Well casings

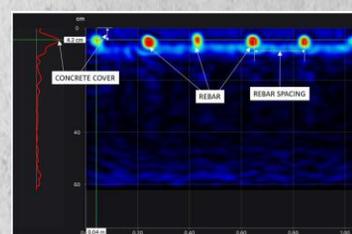


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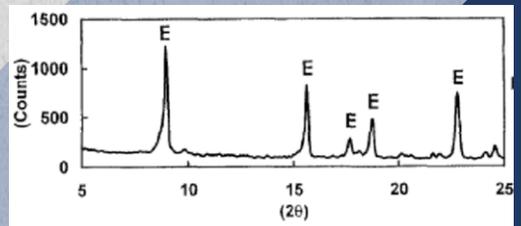
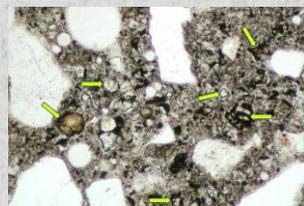
## TESTING FACILITIES

- Concrete core extraction
- Concrete powder sample extraction
- Locating reinforcing bars and measuring concrete cover
- Rebound Hammer test
- Concrete resistivity using Four-pin Wenner probe
- Corrosion potential mapping
- Carbonation depth
- Ultrasound Pulse velocity
- Ultrasound Pulse echo
- Ground Penetrating Radar (GPR) scanning
- Chemical analysis of concrete samples (pH, chloride and sulfate contents)
- Corrosion rate measurement of reinforced concrete members
- Load testing



## Specialized Testing through Independent Labs

- Petrography
- XRD (X-ray Diffraction)
- TGA (Thermogravimetric Analysis)



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## TRAINING COURSES

### STRUCTURAL DESIGN

- ✓ Basic structural design of reinforced concrete
- ✓ Basic structural design of steel
- ✓ Design using structural design software
  - STAAD Pro
  - SAFE
  - ETABS
- ✓ Structural Assessment of Structures

### HEALTH ASSESSMENT & REPAIR

- Mechanisms of concrete deterioration
- Design durable concrete structures
- State-of-the-art techniques for health assessment of concrete structures
- Repair techniques for deteriorating concrete structures
- Cathodic protection of reinforced concrete structures

### CATHODIC PROTECTION

- Basic corrosion and cathodic protection
- Cathodic protection design of steel structures
- Cathodic protection system maintenance
- Cathodic protection troubleshooting and rectification
- NACE CP-1  
Cathodic Protection Tester
- NACE CP-2  
Cathodic Protection Technician
- NACE CP-3  
Cathodic Protection Technologist



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## OUR KEY PERSONNEL

### **DR. SYED EHTESHAM HUSSAIN**

*B.E in civil engineeringg from Osmania University, M.E in structures from Indian Institute of Science, Bangalore and Ph.D. in concrete durability from King Fahd University, Saudi Arabia and NACE certified CP Specialist. Has more than 30 years of experience in health assessment, repair design, rehabilitation, strengthening, durability of reinforced concrete structures as well as design, installation, commissioning, monitoring and troubleshooting of cathodic protection systems for concrete structures, pipeline, tanks and jetties. Published about 29 technical papers in International journals and conferences. His experience includes major projects in oil & gas, petrochemical and infrastructure industries in the Middle East. He is an active member of Indian Concrete Institute, Institution of Engineers (India), Indian Society of Non-destructive Testing & Indian Roads Congress.*



### **ENGR. MOHAMMED ABDUL SALEEM**

*B. Tech in civil engineering from JNTU, Hyderabad and M. Tech in structural engineering, JNTU, Hyderabad. Has 25 years of experience in structural design, project management, FEED, EPC contracts, seismic design, health assessment and structural assessment & upgrade. Covered residential buildings, commercial buildings and industrial structures. Worked extensively on major projects in oil & gas, petrochemical and infrastructure industries in the Middle East and India. He is an active member of Institution of Engineers (India) & Indian Association of Structural Engineers.*



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# STRUCTURAL INTEGRITY

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