



COMPLETE CIVIL ENGINEERING SOLUTIONS



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BE Degree in Mechanical Engineering AMIE, Diploma in Management of Petroleum Development and Operations from Petrad University Norway, Safety Certificate in Offshore Operational Training from Nutec Norway. 35 years of experience in Petroleum Industry in various capacities and various Oil Fields in India and Abroad expertise in Project Management in EPC Contracts Engineering Production and Logistics related to Oil and Gas Industries.

N.R. PILLAI, Director (Ex. General Manager, ONGC)



M.Sc., DIP-RP, Level III R.S.O. ASNT Level III: PT, MT, RT, UT, VT, LT, ET, IR, AE, NR, VA & ML API IN: 510, 653, 570, 571, 577, 580, 936, 1169 AWS-SCWI, PCN Level: UT, MT, PT.

Mr. K. Ravindran is a highly respected name in the industrial fraternity with over 40 years of experience in India and Abroad. He has been a consultant for 83 MNC's all over the world.

K. RAVINDRAN (Late), Our Founder

OUR SERVICES

Non Destructive Testing of RC & Steel Structures

Geotechnical Investigations & Foundation Design

Structural Design Evaluation & Consulting Services

Repair & Retrofitting Techniques

Laboratory & Field Lifting Services

Concrete & Material Testing

Training Courses

SERVICES OFFERED AT GLANCE



NON - DESTRUCTIVE TESTING OF RC AND STEEL STRUCTURES-

- Rebound Hammer (Compressive Strength of the Test Specimen)
- Ultrasonic Pulse Velocity Test (Velocity of the Concrete & Cracks)
- Rebar Locator (Locates the bar, bar dia, spacing between the bars, covering of concrete, corrosion of bars)
- Half Cell Potential Tests (Corrosion rate of Concrete)
- Carbonation Test (Carbonation depth of Concrete)
- Dye Penetration Test (Fine Cracks on the Sample)
- Pile Integrity Test (depth, cross section, bulging, deformities of pipe concrete)
- Concrete Core Extraction (Compressive Strength of Concrete)
- Core Cutting Inspection etc



REPAIR & RETROFITTING TECHNIQUES

- Retrofitting Techniques for existing damaged buildings
- Strengthening of existing member
- Micro concreting
- Carbon Fibre Wrapping
- Jacketing of Beams and Columns
- Wall Thickening
- Steel Path Bonding
- Design Proof check of Buildings
- Water Proofing
- Stitching & cracks in Masonary Walls



GEO TECHNICAL INVESTIGATIONS AND FOUNDATION DESIGN

- Soil Investigation
- Investigation by bore holes, drilling, conducting field tests, collecting samples, carrying out laboratory tests and furnishing report with recommendations
- Designing ground improvement techniques in weak soil conditions
- Conducting field test such as plate load test, static cone penetration test
- Electrical resisting test and permeability test

STRUCTURAL DESIGN, EVALUATION & CONSULTING SERVICES

- Assessment of structural soundness with the aid of Non-Destructive & Destructive Test, independent analysis and design check of build structures
- Assessment of structures for change in occupancy, future expansion, proposed modification as per latest standards

CONCRETE AND MATERIALS TESTING

- Mix design of concrete for varieties of works
- Compressive strength of concrete cubes and solid/hollow blocks brick etc
- Concrete air permeability
- Cover block testing (Compressive strength)
- Fly Ash, Slag (GGBS) Testing
- Tile Granite and Rock Testing

LABORATORY AND FIELD LIFTING SERVICES

- Soil and aggregate sampling and testing
- Concrete sampling and testing (Air content, slump, temperature, unit weight yield and fabrication of compressive strength specimen)
- Block and masonry sampling and testing (Fabrication of masonry mortar and grout compressive strength specimens)

OUR COMPLETED WORKS



| COMPANY NAME & LOCATION | TESTING METHODS | WORKS COMPLETED |
|---|-----------------------|-----------------|
| Thonyakavu PWD Work | Rebound Hammer | 31/01/2018 |
| Nasco Infrastructures Solutions Pvt Ltd, Ernakulam | Rebound Hammer | 15/02/2018 |
| Parimal Towers Site, Kottayam | Pile Integrity Test | 02/03/2018 |
| Rightedge Infrastructures, Ernakulam | Rebound Hammer | 14/03/2018 |
| TPF Engineering Pvt Ltd, Ernakulam | Rebound Hammer | 20/03/2018 |
| Primary Processing Center, Kinfra Industrial Park, Thrissur | Rebound Hammer | 04/04/2018 |
| Synergy Site, Aroor, Ernakulam | Rebound Hammer | 20/04/2018 |
| Telcon Infrastructures, Trivandrum | Mix Design | 26/04/2018 |
| Kunnath Constructions, Ernakulam | Rebound Hammer | 10/05/2018 |
| Crescent Construction, Kollam | Rebound Hammer | 09/06/2018 |
| STAT Consultancy India Pvt. Ltd. Ernakulam | Pile Integrity Test | 10/10/2018 |
| Welcare Hospital, Ernakulam | Pile Integrity Test | 20/10/2018 |
| HSDTP, Ernakulam | Pile Integrity Test | 26/10/2018 |
| STAT Consultancy India Pvt. Ltd. Ernakulam | Soil Investigation | 03/11/2018 |
| Unirans Infra Solutions Pvt Ltd, Ernakulam | Cube Test | 10/03/2019 |
| Kannampuzha Constructions, Alappuzha | Rebound Hammer | 19/09/2019 |
| Cecons Private Limited | Mix Design | 26/09/2019 |
| PNG Constructions | Core Cutting Test | 01/10/2019 |
| Alfa Builders, Kakkanad | Rebound Hammer | 03/10/2019 |
| EJ Builders, Kollam | Rebound Hammer | 11/10/2019 |
| Alfa Builders, Kakkanad | Carbon Fiber Wrapping | 02/12/2019 |
| South Indian Constructions Pvt Ltd, Pathanamthitta | Rebound Hammer | 22/06/2019 |

COURSES OFFERED



QA/QC CIVIL - CONCRETE NDT

Duration : 2.5 months

Eligibility :

+2/ITI/Diploma/Degree/B.Tech

- Ultrasonic Pulse Velocity Testing
- Rebound Hammer Testing
- Rebar Locator
- Carbonation and Chlorides Testing
- Coating Thickness Measurement on Concrete
- Half Cell Potential Testing
- Infrared Thermography
- Radiography
- Pile Integrity Testing, etc.

QUANTITY SURVEYING & COST ESTIMATION

Duration : 1.5 months

Eligibility :

+2/ITI/Diploma/Degree/B.Tech

- Process of Estimating Units
- Method of Building Estimates
- RCC Works and Structures
- RCC Roof Slab
- RCC Column with Foundation
- Bar Bending Schedule for RCC Beam
- Rate Analysis
- Road Estimation
- Documentation, etc

CONSTRUCTION MANAGEMENT

Duration : 1.5 months

Eligibility :

+2/ITI/Diploma/Degree/B.Tech

- Introduction to Job Planning and Management
- Project Cost Analysis
- Industrial Relations
- Construction Safety
- Risk Analysis & Disaster Management
- Contract Laws & Personal Liability

CERTIFICATION :- LEVEL 2 IN ACCORDANCE WITH ASNT



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OUR BRANCHES

THIRUVANANTHAPURAM, KOLLAM, KOTTAYAM, MANNAR, PATHANAMTHITTA,
PERUMBAVOOR, THRISSUR, PALAKKAD, KOZHICKODE, TAMIL NADU,
TELANGANA, MUMABI, BAHRAIN & MALAYSIA

