

CivilApps – Applications for Civil Engineers

‘CivilApps’ is a web based system to develop/aggregate various resources that are useful for practicing Civil Engineers, Quality Monitors, and Contractors working mainly in Road Sector

Website: <https://www.civilapps.in>

Some of the resources are:

- Applications
 - ✓ Excel Based Applications [These are in open domain for free access. Standalone applications that can be downloaded and used with no Internet requirement – with associate demo videos on YouTube]
 - Concrete Mix Design as per IS: 10262 (2019)
 - Blending of Aggregates by Analytical Method
 - Design of Flexible Pavements for Low-Volume Roads as per IRC:SP-72 (2015)
 - Design of CC Pavements for Low-Volume Roads as per IRC:SP-62 (2014)
 - Unified System of Soil Classification (USSC) as per IS:1498 (1970-2002)
 - Design of Small Bridges & Culverts as per IRC:SP-13 (2022)
 - Design of Horizontal Curves
 - ✓ Web Based Applications (Developed on ZOHO Creator Platform - Accessible on Desktop/Laptop/Mobile/Tablet)
 - Organizational Apps (With Offline Access and Geo-Tagged)
 - QMS (Quality Monitoring System) – Capturing field test data – that is geo-tagged - and generate complete test formats and acceptance criteria. The app is offline accessible – that is field data can be recorded in remote area even without internet
 - RoadNet – Capturing Road Network with attributes to define custom reports
 - mProcure – For managing material (cement, steel, or any custom materials) procurement – Requirements, Indents, tracking delivery and payments etc.
 - eDdigest – Tracking status & progress of works
 - Individual Apps
 - Roadex – A ready reckoner of data (concepts, geometric standards, quality requirements, test procedures, road furniture, etc) compiled from various codes and technical publications that is concise and relevant for field engineers, quality monitors, and contractors that is literally at figure tips – Mobile app with offline access
 - qBank – Testing app on various aspects of road engineering to gauge proficiency of field engineers and quality monitors. Interactive multiple-choice question that is engaging with easy-to-use interface. At present the app is being used by more than 125 quality monitors (SQMs/NQMs of PMGSY program) across the country. These QMs have ‘Proficiency Test’ WhatsApp group, where they interact in lively discussions on various quality issues
- Presentations (power point) on various technical topics
- Videos (sourced from YouTube) – that are relevant and short
- Various Technical Publications – With Hyperlinks developed for easy and quick access to the required information

Custom Applications can be built based on client requirements

Resume

Personal Details:

| | |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name | Y. Narasimha Rao, B.E. (Hons) [Civil], M.Tech [Computer Science] |
| Occupation | Superintending Engineer (Retd), Panchayatraj Engineering Department, AP Presently Project Advisor, APRRP (PMC), PR Engineering Department, AP [Asian Infrastructure Investment Bank] |
| Contact Address (Current) | B-510, Golden Homes Apartments, Opp. Jute Mill, Krishna Nagar, GUNTUR-522006 |
| Contact Address (Alternative) | Flat No. 101, 2-131/11, Ward-6, Fame's Brindavanam Apartments, Near Masjid Park, Mubarak Colony Main Village Yendada, Visakhapatnam - 530045 |
| Permanent Address | Yaganti vari Bazar, Adigoppula (V), Durgi Mandal, Palnad District |
| Phone(M) | 9866696588 |
| Mail | admin@civilapps.in , nyaganti@gmail.com |

Educational qualifications:

| Qualification | Institute | Year |
|---------------------------------|------------------------------------|------|
| B.E.(Hons) in Civil Engineering | BITS, Pilani | 1982 |
| BCA | IGNOU, New Delhi | 2003 |
| MCA | IGNOU, New Delhi | 2006 |
| M.Tech (Computer Science) | AcharyaNagarjunaUniversity, Guntur | 2010 |

Additional qualifications:

- **STAAD** (Structural Analysis and Design) Certificate course
- Certificate of Proficiency in English (in **NELTS**) by CIEFL, Hyderabad
- Certificate of meritorious Service from District Collector, Guntur
- Membership in Geotechnical Society, Guntur Chapter (LM 2065)
- Certificates of specialized trainings in several administrative and technical courses. Some of these :

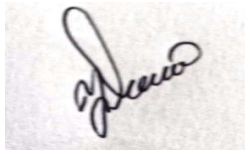
| Organization | Subject | Duration/period |
|---------------------|----------------------------------------|----------------------------|
| APARD, Hyderabad | Disaster Management | 12/6/07 - 16/6/07 |
| | Neeru Meeru | 5 day program |
| NIRD, Hyderabad | Planning & Management of PMGSY program | 22/7/09 - 27/7/09 |
| KVK, Gandhigram, TN | Rural Water Supply & Sanitation | 7 day program [1999-2000] |
| NAC, Hyderabad | Planning & maintenance of rural roads | 22/5/06 – 24/5/06 |

Work Experience:

| | | | |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Lecturer | Sir CR Reddy Polytechnic, Eluru | 1982-1983 | Taught Surveying, Fluid mechanics & Hydraulics etc. |
| | VR Siddhardha Engineering College, Vijayawada | 1983-1985 | |
| Panchayat Raj Engineering Department | Assistant Executive Engineer | 1986-1997 | Estimation, planning, and execution of water supply projects, buildings, and roads (PMGSY, NABARD etc.) |
| | Deputy Executive Engineer | 1997-2010 | |
| | Executive Engineer | 2010-2019 | |
| | Superintending Engineer [Retired on 31/7/2020] | 2019 to 2020 | As Project Manager & Sector Expert in AP Disaster Recovery Project |
| Panchayat Raj Engineering Department (Post-Retirement) | SQM (State Quality Monitor) for PMGSY program | October 2020 to December 2022 | Quality inspection of roads/bridges under PMGSY program |
| | IQM (Independent Quality Monitor) for AP Rural Roads Project [Under the aegis of Asian Infrastructure Investment Bank] | December 2020 to December 2022 | Quality inspection of roads/bridges under APRRP program |
| | Project Advisor, PMC (APRRP) [Asian Infrastructure Investment Bank] | Jan 2023 till date | |

IT related skills & activities undertaken in the department:

- Development of Web/Mobile Applications on ZOHO Creator Platform
- Development of Stand-Alone Applications based on Excel (Visual Basic)
- DPR on Sector reforms on Water supply
 - Played a key role in preparation and sanction of Detailed Project Report (**DPR**) on sector reforms for drinking water supply for Guntur District in consultation with Sri Heeralal Samaria, the then District Collector, Guntur.
 - Presented the DPR to the GoI, New Delhi on behalf of district administration.
- Online Fortnightly Progress Report for APDRP project under AP State Disaster Management Authority
- Development of web sites [Departmental & General]
 - <https://www.civilapps.in> – which is a useful repository of technical references for Civil Engineers, which contains among other things – Organizational Applications for Public Works Departments, Excel based Apps – Design of Flexible Pavement, Design of Rigid Pavement, Concrete Mix Design etc
 - www.igc-guntur.webs.com – It is a support website for the Annual conference of Geotechnical society of India, Guntur chapter held during February,2010. [Now the conference is over, the website is defunct]



Y. Narasimha Rao