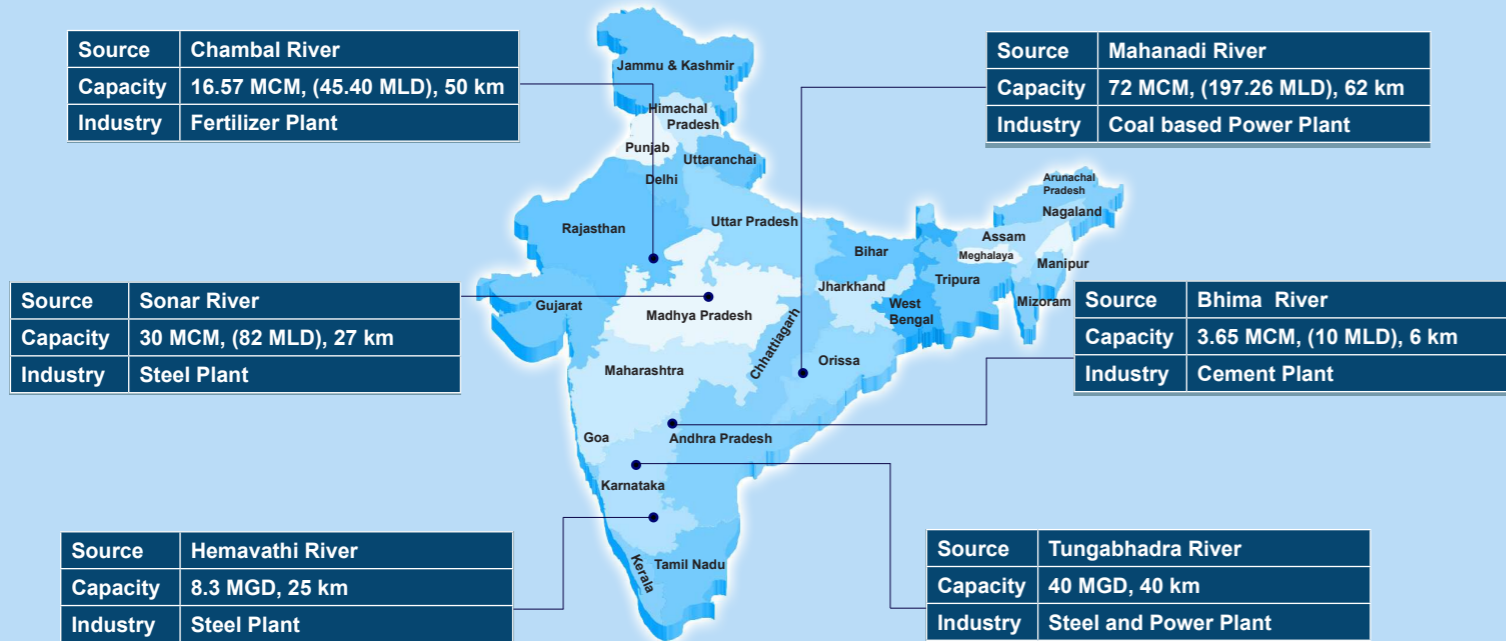


Major National and International Projects Executed

- **National Consulting Bureau, Tripoli, Libya**
Consultancy Services for Water Supply, Sewerage, Storm Water, Electrical Town Distribution Network and Roads for 101 Towns in Tripoli Region.
- **Gujarat Rural Housing Board (GRHB), Government of Gujarat**
Detailed Project Report (DPR) and Draft Tender Preparation (DTP) for Sewerage System for 32 Towns/Taluk Head Quarters, Gujarat.
- **IBG Ltd, Industriestrasse 2A, CH-8604 Volketswil, Switzerland**
Design of Storm Water Drainage System, Roads and Associated Structural Components for Water Reservoir Stations, Saudi Arabia.
- **Saving Investments and Urban Development Company (SIUDC), National Consulting Bureau, Tripoli, Libya**
Consultancy Services for Water Supply, Sewerage, Storm Water, Electrical Town Distribution Network, Street Lighting, Roads and Pavement, Telecommunication and Gas Distribution System for Al Herrah Township in Tripoli Region, Libya.
- **Bangalore Development Authority (BDA)**
Consultancy Services for Water Supply, Sewerage, Storm Water, Roads and Cross Drainage for Anjanapura Township, Bangalore.
- **Narmada Valley Development Authority (NVDA), Indira Sagar Project (Canals), Madhya Pradesh, India**
Project Management Consultancy Service for Punasa Lift Irrigation Project (35008 Ha.)

Raw Water Sector Projects

Services include Detailed Engineering Survey, Cadastral Survey & Investigation, Hydrological and Water Adequacy Analysis, statutory Clearances, land Acquisition, Planning and Design of Raw Water Intake Wells, Pumping Stations, Raw Water Transport Main and Preparation of Cost Estimate & Tender Documents etc



Awards

- **Best Professionally Managed Company 2014** - Construction Industry Development Council (CIDC)
- **Geospatial Company of the Year 2013** - India Geospatial Forum 2014
- **Best Project for Urban Infrastructure 2011** - Construction Industry Development Council (CIDC)
- **Export Excellence Award (Gold) 2010** - Federation of Karnataka Chambers of Commerce & Industry (FKCCI)
- **Export Excellence Award (Silver) 2008** - Federation of Karnataka Chambers of Commerce & Industry (FKCCI)
- **Certificate of Appreciation 2012** - Gas Authority of India Limited (GAIL)
- **Woman Consultant of the Year 2012** - Consulting Engineers Association of India (CEAI)
- **Woman Consultant of the Year 2009** - Consulting Engineers Association of India (CEAI)

Corporate Office:

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Branch offices: Mumbai, New Delhi, Vadodara, Hyderabad, Jaipur, Bhopal, Gandhinagar, Assam,
International Offices: Tripoli (Libya), <http://www.secon.in>



SECON

(CMMI LEVEL-3, ISO 9001: 2008, NABL Accredited firm)

GIS Driven Multidiscipline Engineering Consultancy



Public Health Engineering

Survey and Investigation

- Feasibility Study
- Topographical, Engineering and Land Information Survey
- Right of Way Acquisition and Way Leave License
- Satellite Imagery, Geophysical and Geotechnical Investigations
- Hydraulic and Hydrological Investigations
- Ground Penetrating Radar (GPR), Underground Leak Detection and Solution

Water Supply, Sewerage and Storm Water Drainage System

- Raw Water Sourcing from Surface / Underground Sources
- Electro Mechanical Components
- Cross-Country Raw Water Transportation
- Water Treatment, Storage and Distribution
- Irrigation, On Farm Development and Water Management
- Sewage Collection, Treatment and Recycling
- Storm Water Drainage and Disposal

Construction Phase Services

- Bid Documents, Vendor Evaluation and Award
- Project Management and Construction Supervision

Web Enabled Enterprise GIS

- Asset & Maintenance Management System

Total Solution from a Single Window

SECON is an ISO 9001:2008, NABL Accredited and CMMI Level 3 Certified Multidiscipline Engineering and Mapping Firm, established in 1981.

SECON is one of the leading Multidiscipline Engineering Consulting Firms and one of the largest and oldest Surveying and Mapping firms in India.

SECON has worked for clients all across the world especially in India, North America, South America, Canada Australia, Africa, Middle East and Europe.

SECON is probably the only company in India to offer a comprehensive solution for Geospatial Services right from Survey and Data Collection, Design Engineering and GIS Based software Development. This comprehensive domain experience of over three decades in all types of terrain sets it apart from other Geospatial companies.



SECON HQ, Bangalore, India



Surface Water Sourcing from Anicut

Electro Mechanical Components

- Pumps & Motor Configuration
- Design of Pumping Station & Related Piping System
- Emergency Power/Standby Power
- Diagnostic Analysis and System Protection
- Instrumentation and Control System
- Power Transmission and Distribution
- Safety Compliance
- Construction Drawings and Updation of As-Built Drawings

Raw Water Sourcing from Surface / Underground Sources

- Secondary Data Collection on Flow and Discharge Data
- Existing Water Utilization and Commitments
- Hydrological and Water Adequacy Analysis
- Reservoir Capacity Assessment
- Ground Water Assessment
- Water Quality Mapping, Water Extraction and Environmental Impact
- Rainwater Harvesting and Solution



Lift Irrigation System Pumpstation

Cross-Country Raw Water Transportation

- Optimization of Pipeline Hydraulics and Routing
- Horizontal and Vertical Geometrics
- Economical and Surge Analysis and Design of Surge Protection Devices



Raw Water Transport Main

Water Treatment, Storage and Distribution

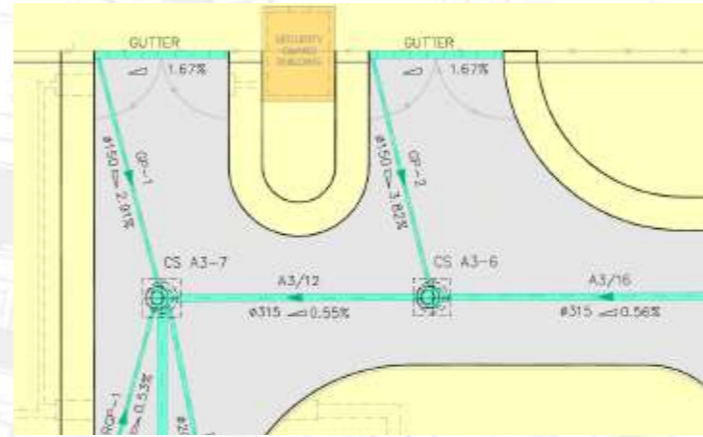
- Selection of Optimum Treatment Technology
- Structural Design of Treatment Units and Storage Reservoirs
- Distribution Network Planning, Material Selection and Sizing of Pipes
- Construction Drawings and Updation of As-built Drawings



Water Distribution System Model

Sewage Collection, Treatment and Recycling

- Feasibility Study & Base line Data Analysis
- Population Projection, Sewage Flow Forecast & Catchment Delineation
- Hydraulic Design of Sewer Network & Pumping Station
- Treatment Technology and Structural Design of Treatment Units
- Construction Drawings and Updation of As-built Drawings



Conceptual Layout of Storm Water System

Ground Penetrating Radar (GPR), Underground/Underwater Leak Detection for Pipelines & Dams

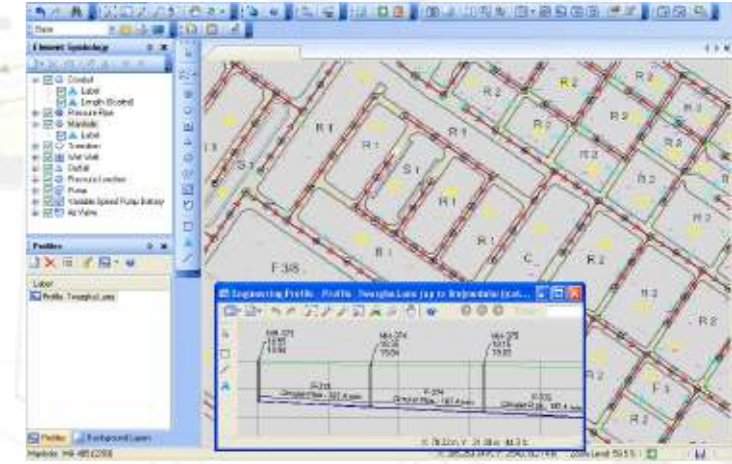
- Field Survey and Data Collection
- Programme & Strategies for Isolation of Study Area
- Advanced Technology to Identify the Location of Leaks
- Procedure for Calculation of losses and Unaccounted Water
- Pressure Monitoring using GSM Technology
- Hydraulic Analysis and Finalization of Overall Reduction Plan

Bid Document Management

- Standard Technical Specifications & Contract Documents
- Engineer's Comprehensive Cost Estimates and BOQ
- Vendor Evaluation and Selection
- Bid Evaluation & Selection of Construction Contractors

Project Management Consultancy

- Strategic & Operations Planning
- Review of Design and Drawings
- Bid Capacity Assessment
- Construction Supervision and Monitoring
- Review of Quality Assurance Plan
- Preparation of Operation and Maintenance Manual
- Quality and Quantity Auditing, Oversight and Certifications
- Development of Web Based Project Progress Monitoring System
- Capacity Building Education and Training Programmes
- Completion Certificates



Sewer Collection System Model

Storm Water Drainage and Disposal

- Rainfall Data Analysis, Runoff Estimation and Catchment Area Delineation
- Optimum Hydraulic Design of Storm Water Collection Network & Pumping Station
- Design of Collection and Recharge Reservoirs
- Disposal Site Development
- Construction Drawings and Updation of As-built Drawings



Subsurface Survey using GPR

Asset & Maintenance Management System

- Provides complete GIS based Asset Management, Maintenance, Billing & Operations of Water, Sewer & Storm Water Drainage System



Pipe Laying Inspection