



*Innovation towards  
Knowledge sharing...*

## Vitya Consultants Pvt. Ltd

(VCL) is an Independent Consulting Company with a vision to focus and devote mainly in Environmental Science and Engineering besides making an attempt to provide end to end solutions as a Global perspective to make our Client's Vision into Reality working very closely with client to make it to happen. VCL envisions a futuristic perspective of a formal knowledge organization in terms of providing reliable data, coupled with modelling efforts to mimic the reality, adding its tacit knowledge with a collective perception of work ethic by effective interaction of its TEAM and users.

VCL believes that the key to success is the ability to work effectively with the clients to define, address, and resolve their environmental concerns. VCL offers technical talent, specialized expertise, physical resources and requisite facilities that are important in responding to water and environmental issues. The quality of work and timely completion of the project are of paramount importance in each assignment VCL undertakes.





### **Mr. K.Krishna**

Over Fifteen years of key professional Consulting experience, Mr. Krishna was instrumental in defining and establishing the Environmental Consulting wing in 2005 in Northern Region for Voyants Solutions Pvt. Ltd., (Formerly Known as, Ramky Infra Consulting Pvt. Ltd). Now this company has best in class projects in Environmental SBU taking care of entire value chain of Environmental Related issues. He worked as Sr. Vice President of Voyants Solutions Pvt Ltd for over five years and also played various other key roles as Infrastructure SBU Head and also as a Regional Head of Hyderabad Region in Voyants Solutions Pvt. Ltd.

Prior to Joining VSPL, he worked in various Central Govt. Organizations like Central Pollution Control Board (CPCB), National Environmental Engineering Research Institute (NEERI) at various levels and enriched his experience in Environmental and Infrastructure Consulting.

Over last few years he worked extensively on Conceptualization, Project Engineering, Detailed Engineering designs and Construction Supervision of Infrastructure such as Design of Water Supply System including water works design, Sewerage and Effluent Collection System including Design of Sewage/Effluent Treatment Plants, Common/ Combined Effluent Treatment Plants (CETPs), Design of Storm Water Drainage System etc, and Public Private Partnership models of Core Infrastructure Projects.

He holds M.Tech in Environmental Engineering and B.Tech in Civil engineering from NIT Warangal. He is also is a key Member and active participant in various Environmental Journals etc.,

He always in the process of Updating his technical knowledge with new skills and share and apply those skills towards the practical approach.

### **Mr. Raja S. Rao**

Raja holds B. Tech in Chemical Engineering from NIT Warangal and has rich Industrial experience in Chemical Engineering Sector particularly in Basic Organic Chemical Industries. Raja worked in various Multi national Companies such as Shell, APL, etc., under various Senior Management Positions.

### **Mr. V.S. Chaudhary**

Chaudhary holds M.Tech in Chemical Engineering from IIT Kanpur and has rich experience in IT applications in Infrastructure Engineering. His vision is to apply those IT knowledge and IT software in various other key identified sectors for ease and simplicity of the clients.

### **Mr. Ramanujam**

...has vast experience in Instrumentation Engineering applications and has worked in various MNCs in Dubai, Srilanka and gained experience in Non-Renewable Energy sector and he is passion in applying his knowledge for development in this field.

# Services

Vitya Consultants Pvt. Ltd is (VCL) an Independent Consulting Company with a vision to focus and devote mainly in Environmental Science and Engineering besides making an attempt to provide end to end solutions as a Global perspective to make our Client's Vision into Reality working very closely with client to make it to happen. VCL envisions a futuristic perspective of a formal knowledge organization in terms of providing reliable data, coupled with modeling efforts to mimic the reality, adding its tacit knowledge with a collective perception of work ethic by effective interaction of its TEAM and users.

VCL believes that the key to success is the ability to work effectively with the clients to define, address, and resolve their environmental concerns. VCL offers technical talent, specialized expertise, physical resources and requisite facilities that are important in responding to water and environmental issues. The quality of work and timely completion of the project are of paramount importance in each assignment. VCL undertakes.

#### **Major Thrust areas include;**

To render assistance to the industries of the region, Industries, Private players who concern more on Environmental issues, local bodies, etc. in solving the problems of environmental pollution.

- ✦ Water resources Engineering
- ✦ Water Management
- ✦ Wastewater management
- ✦ Urban Environment Improvement GIS based applications for various needs
- ✦ Renewable Energy and Its Efficiency studies
- ✦ Clean Development Mechanism
- ✦ IT Based applications in Real Estate, Infrastructure Management etc.,

Further, VCL is very keen to interact and collaborate with academic and research institutions on environmental science and engineering for mutual benefit.

Thus, the Company is dedicated to the service industry by providing innovative and effective solutions to environmental and natural resource problems with innovative approaches to optimal utilization and conservation of environmental resources.

VCL Provides end to end solutions to concept to commissioning stage, which includes,

#### **During Conceptual Stage**

- ✦ Pre-Feasibility Study
- ✦ Preliminary Engineering
- ✦ Concept Master Planning
- ✦ Environmental Impact Assessment

#### **Design Stage**

- ✦ Field Surveys and Investigations
- ✦ Assistance in Master Planning Stage
- ✦ Design of Infrastructure Services
- ✦ Detail Master Planning
- ✦ Land Development
- ✦ Road Network
- ✦ Water Supply System
- ✦ Sewerage System
- ✦ Storm Water Drainage System
- ✦ Electrical system
- ✦ Solid Waste Management System
- ✦ Design of Social Infrastructure/Common facilities
- ✦ Landscaping
- ✦ Project Costing & Budgeting
- ✦ Tendering / Bid Process Management

#### **Development Stage**

Project Management & Construction Supervision  
VCL has competent and experienced team in various core disciplines of relevance to environmental Science and Engineering.

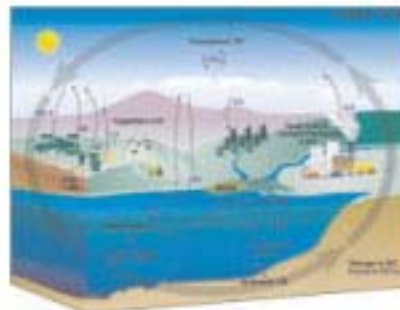


# Water Resource Engineering

Nothing is more basic to life than water. Nothing is more critical to a community than its water supply. This makes planning, management, monitoring and modeling of the water resources essential. We also have experience and expertise on complex water quality modeling programs like Qual 2EU, WASP and SWMM.

**Our areas of expertise on this sector are:**

- ✦ Watershed Management
- ✦ Catchment Area Treatment and Management
- ✦ Water Quality Management
- ✦ Water Quality Modeling





Water supply Engineers are required to provide customers with an adequate supply of safe drinking water that complies with stringent drinking water standard requirements at a reasonable cost.

The aim of our work is to efficiently utilise water resources through the implementation of state-of-the-art technologies to ensure a high quality, and economically sustainable water supply. VCL develops concepts and designs the schemes for storage and distribution of water.

**Our areas of expertise are:**

- ✦ Water Works design and Design for Storage and distribution system for water supply to ensure 24X7.
- ✦ Water treatment
- ✦ Rural water supply systems and techniques.
- ✦ Water quality compliance
- ✦ Water audit



# Waste Water Management

The team of VCL has the expertise and designed sewerage systems, major conveyance facilities and wide range of wastewater treatment plants for individual Industries, Industrial Estates, Residential Townships, SEZs, etc.

These treatment facilities have included both secondary and tertiary treatment technologies and have incorporated effluent reuse and ground water recharge.

## **VCL areas of expertise in wastewater management are:**

- ✦ Sewerage Network
- ✦ Treatment
- ✦ Land application
- ✦ Wastewater reuse
- ✦ Sludge management
- ✦ Sanitation





The delivery of adequate urban environmental services and improvements is essential if we are to safeguard our health, to protect the urban environment, and to improve overall urban productivity. One of our most distinctive expert disciplines is our prominence in developing methodologies, master plans and designs related to urban environmental issues.

**Our services in this sector include:**

- ✦ Solid waste management
- ✦ Storm water management
- ✦ Urban forestry management







# Environmental Management

VCL aims to build a sustainable future, working closely with a wide variety of interest groups and community-based organizations, governments and funding agencies. Protecting vulnerable ecosystems and promoting sustainable management of natural resources - all while stimulating economic development. The key to our approach lies in formulating viable development strategies that neither exhaust the vital resources nor threaten the biodiversity. The optimum use of the natural resources, safe supply and disposal methods as well as preservation and restoration of the environment are challenging tasks of great urgency and complexity and we are continuously collaborating in the solution of these problems.

## **VCL provides following services in environmental management sector:**

- ✦ Environmental Impact Assessment & Environmental Management Plan and Obtaining Clearance from State and Pollution Control Board, Ministry of Environment and Forest (MoEF) and Respective Agencies for
  - ✦ Hydropower Sector and Multipurpose Irrigation Projects
  - ✦ Road Projects
  - ✦ Chemical Industries
  - ✦ Residential Townships including SEZs etc.,
  - ✦ Industries such as Cement, Oil Industries, Food Processing Industries, Bulk Drug Industries etc.,
  - ✦ Common/Combined Effluent Treatment Plants
  - ✦ Other Sectors as per the requirement of EIA notification.
- ✦ Environmental Audit and Risk Assessment
- ✦ Environmental Monitoring and Environmental Field Studies
- ✦ Social Impact Assessment and Resettlement Action Plan
- ✦ Environmental Engineering and Planning
- ✦ Waste Water Recycle and Reuse
- ✦ Water Resource Management and Rainwater Harvesting
- ✦ Acoustic/Noise Monitoring and Control
- ✦ Environmental Awareness
- ✦ Post Clearance monitoring and compliance of projects
- ✦ River Basin Management
- ✦ Coastal Zone Management
- ✦ Wetland Management
- ✦ Forestry Management
- ✦ Biodiversity and Habitat Conservation
- ✦ Lake Conservation

A close-up photograph of a person's hand pointing at a map with a white marker. The map shows various lines and colors, likely representing geographical features. The text 'Remote Sensing & GIS' is overlaid on the right side of the image in a large, white, sans-serif font.

# Remote Sensing & GIS

GIS is a system for capturing, storing, analyzing and managing data and associated attributes which are spatially referenced to Earth, in other terms it is an information system capable of integrating, storing, editing, analyzing, sharing, and displaying information which is geographically referenced (establishing a relation between raster or vector images to map projections or coordinate systems). GIS is a tool that allows users to create interactive queries (user created searches), analyze the spatial information, edit data, maps, and present the results of all these operations.

It is also known by different names like Land Information System, Environment Information system, Geospatial Information System etc.

## AREAS OF WORK

- ✔ Geological Mapping
- ✔ Geomorphological Mapping
- ✔ Lineament interpretation and analysis
- ✔ Land Use Land Cover (LULC) extraction
- ✔ Digital Elevation Model (DEM) preparation using different types of satellite imageries
- ✔ Linear features mapping
- ✔ Mapping of two dimensional features like the polygon features
- ✔ Mapping of point features like the landmark features etc.
- ✔ Hydrological mapping
- ✔ Thematic mapping of areas for facilitating for a better decision making

These outputs are used for working on assignments of sectors like hydro-electric project planning, Oil and gas sector, urban development projects, telecom projects (Digital map data for an area to plan a wireless telecommunication Radio Frequency or RF network has to be provided which will help in studying the logistics of mobile usage and facilitate in planning network infrastructure), mining and mineral exploration etc. VCL also works on projects like Vegetation Mapping, Forestry Mapping, Watershed Management and DEM preparation, Gas Pipeline utility projects, Preparing GIS based geological database and Pipeline Utility Planning Feature extraction from different paper maps to convert into a digital format.



# Clean Development Mechanism

VCL is targeting as one of the players in the CDM market in India. It provides a range of services such as awareness generation, capacity building among various industries and government agencies, conceptualization to registration and selling of CERs in the international market. In its CDM portfolio, VCL has made an MoU with GTZ i.e. German Development Corporation and working on Various CDM projects.

The services include working with project developers throughout the credit creation process, starting from the initial conceptualization and project assessment, continuing with the full project documentation, undertaking the entire formal approval processes and finally monitoring, verifying and successfully transacting the Certified Emission Reductions (CERs).

#### **Typical CDM projects being handled by us include, Inter-alia**

- ✦ Renewable Energy Projects like Biomass based power generation, Wind power generation and Hydro power generation and dispatch of power supply to the grid.
- ✦ Energy / Efficiency improvement projects like replacement of old boilers by new boilers with higher efficiency, coal or oil fired power generation by a combined cycle power plant and conversion from open cycle to combined cycle power plant.
- ✦ Energy efficiency projects like waste heat recovery, energy efficiency through steam generation process optimization and efficient utilization, replacement of old production technology by new technology and processes and change in product mix leading to lower consumption of fossil fuels.
- ✦ Fuel switch like industrial fuel switching from coal and petroleum fuels to natural gas and partial replacement of fossil fuels by biomass as an alternative fuel in cement plants.
- ✦ Methane capture projects like collection and combustion of Methane in landfills to produce electricity dispatched to the national grid and Methane capture and combustion to generate power.

VCL associates itself with the project right from the preparation of Project Design Document (PDD) through the registration till the project gets Certified Emission Reductions (CERs). Our Services include

- ✦ Undertaking pre-feasibility study to evaluate the eligibility of the project for the CDM benefit
- ✦ Preparation of PDD with inputs from project proponent
- ✦ Extending required support in getting host country approval and during verification process
- ✦ Guidance in registering the project with UNFCCC
- ✦ Development/implementation of detailed monitoring plan (post validation)

# Vision & Mission

The Vision of VCL is to be a leading organization in terms of dedication and commitments to our Clients so as to make our Client's Vision into Reality.

## **Mission Statements**

The Mission Statements that will help the VCL turn its vision into reality are to:

- ◊ Offer the highest quality programmes for capacity development, knowledge sharing and information services etc.,
- ◊ Deepen, expand and diversify the partnerships, businesses and achieve the Millennium Development Goals.

VCL would continue to strive for dedicating itself in the service of mankind by providing innovative and effective solutions to our clients through a process of continuous updating of knowledge sharing.

Vision into Reality

## **Vitya Consultants Pvt. Ltd**

### **Regd. Office:**

#205, G.K. Habitat Royale  
Yapral, Sainikpuri, Secunderabad - 500087

### **Corporate Office:**

Plot #1, Above Gold Spot Café, Opp: Kenedy Vidhya Bhavan School  
West Marredpally Main Road, Secunderabad - 500026

Tel: 040 - 66232979, 66233979, 66903970 - 77/79 (9 lines)

Fax: 040 - 66233979

Mobile: 9989211387, 900061387

Email: [ed.vitya@gmail.com](mailto:ed.vitya@gmail.com), [kk@vitya.in](mailto:kk@vitya.in)

Website: [www.vitya.in](http://www.vitya.in)

### **Chennai Office:**

T - 14, Block 'D'

Jains Avantika, Manapakkam  
Manapakkam Main Road, Chennai - 600116

Mobile: 09444909794

### **Gurgaon Office:**

C - 34, First Floor, Ardee City, Gurgaon - 122003