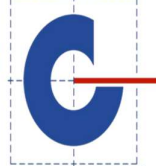




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Vision into Reality

VITYA Consultants Pvt. Ltd.

(An ISO: 9001-2015 Company)

India's one of the Leading Integrated
Infrastructure & Environmental Services



VITYA Consultants Pvt. Ltd, Secunderabad



ABOUT VITYA

VITYA Consultants Pvt.Ltd. (VCL) is an ISO 9001:2015& certified Environmental Consulting firm under NABET operating in a vision to focus and devote in the field of Environmental Engineering. VCL envisioned providing end to end solutions to the clients in a global perspective to make our Client's " Vision into Reality". 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 ethics 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 that VCL undertakes.



SERVICES OFFERED BY VCL

1. Detailed Social Impact Assessment Reports (SIA), Preparation Of Resettlement & Rehabilitation Reports (R&R) as per the Govt. of India Norms/ various funding Agencies such as World Bank/ADB/JICA etc.,
2. Design, Detailed Engineering, Project Management and Construction Supervision for Various Infrastructure related Projects i.e Water supply, sewerage, Storm water Drainage , STPs, CETPs including the approvals from National (AMRUT Scheme) and International Funding Agencies such as World Bank, ADB, JICA etc.,
3. GIS studies and its application in Infrastructure designs in line with best available technologies

VISION MISSION AND VALUES

Vision

To be a respected infrastructure & engineering Consultancy Company providing value to its customers.

Mission

Creating value to customers through technologically superior human capital, quality, teamwork & innovation.

Values

At VITYA, we cherish our VALUES. We expect all our employees to maximize and uphold the VITYA Values in the way we conduct our business every day, every way.

- **Teamwork:** Value working together by creating bonds across diversity towards common pragmatic goals.
- **Innovation:** Encourage and provide conducive atmosphere for innovative approach to solutions.
- **Integrity:** Commitment to transparent, responsible, ethical behavior that furthers the long term interests of all our stake holders.



QUALITY POLICY

VITYA Consultants Pvt. Ltd (VCL) is committed to maintain its position as the foremost provider of concept to commissioning consultancy services, Engineering and Project Management solutions, globally in the field of Environment, Infrastructure and related technologies.

VCL shall strive to provide the best possible value to achieve complete customer satisfaction to its customer through:

- Technical competence & innovation aligned to the latest National/International trends.
- Complete involvement of all employees at all levels with professional excellence, and ethics.
- Reinforcement of core competencies clubbed with synergic diversifications.
- Continual improvement of systems, processes and resources.
- Monitoring environmental media to completely eradicate or reduce the impact drastically to achieve Environmental protection and customer satisfaction.



VCL shall Endeavour to be an important player in the development of national policies and strategies in the field of Environment and Infrastructure.

VCL also ensures that all employees are in the organizational communication line and to review the quality policy once in three years or earlier as status demands.

Key Management



With the background of key professional Consulting Experience, Mr. Krishna is instrumental in defining and establishing the Environmental & Infrastructure Consulting wing of VITYA Consultants Pvt. Ltd with an objective of transforming client's "Vision into Reality".

Mr. Krishna is a Post graduate in Environmental Engineering and B.E. in Civil Engineering from NIT Warangal, having more than 25 years of professional and Managerial experience, leads VITYA as Managing Director.

He previously worked in various Central Govt. Organizations like Central Pollution Control Board (CPCB), National Environmental Engineering Research Institute (NEERI), RITES at various levels and enriched his experience in Environmental and Infrastructure Consulting.

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

He is also is a key Member and active participant in various Environmental Journals etc always in the process of Updating his technical knowledge with new skills and share and apply those skills towards the practical approach



INFRASTRUCTURE & TECHNOLOGY

With a corporate office in Hyderabad, one registered office in Hyderabad. VITYA promises an unmatched reach and all-round support to the clients. We have the capability to mobilize teams across states in the minimum time.

- VCPL has State-of-the-Art software and hardware to efficiently resolve the most arduous engineering problems

SOFTWARE:

- ❖ MS Office, MS Project
- ❖ Autodesk: AutoCAD
- ❖ Auto CAD CIVIL 3D
- ❖ REVIT & NAVIS WORK
- ❖ ARC GIS
- ❖ Global Mapper
- ❖ Adobe: Photoshop C5, Acrobat Pro
- ❖ Bentley: WaterGEMS, SEWERGEMS, STORMCADM, HAMMER
- ❖ CALINE4, Envirotreat, AEROMOD

HUMAN CAPITAL

The team at 'VITYA' comprises more than 30 employees, Chosen the "SMART in working" from the best in the industry. Our people stand as our greatest asset as we provide unparalleled service to our clients. We enable our employees to succeed—and we constantly seek experienced individuals capable of delivering a wide range of value-added services to our clients around the world.

As a team member at VITYA, the individual will be challenged by exciting projects, work alongside the best and brightest colleagues, enjoy the amiable and open work environment and find a work-life balance which is not possible—especially in the consulting industry.

CERTIFICATIONS, REGISTRATIONS, EMPANELMENT AND CLIENTELE

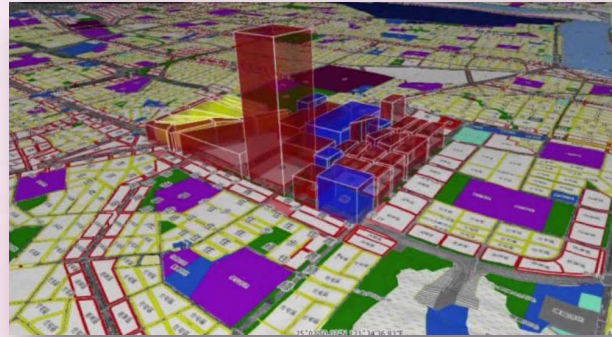
Certifications

- ✓ An ISO 9001:2015 Certified Firm



Empanelment

- Ministry of Urban Development (MoUD), Govt. of India for Preparation of DPRs under JnNNURM/UIDSSMT
- Ministry of Environment, Forests & Climate (MOEF&CC) , Govt. of India Change as EIA Consultant for various infrastructure Development Projects
- Uttarakhand Jal Nigam for Preparation of DPRs
- TNUIFSL, Tamilnadu for Preparation of DPRs
- Urban Development Department, Govt. of Rajasthan for Preparation of DPRs
- World Bank Assisted Capacity building for Industrial pollution Management by Andhra Pradesh Pollution Control Board (APPCB)
- RIICO, Govt. of Rajasthan, as EIA Consultant for various Industrial estate Development Projects
- Jharkhand Public Health Department for Preparation of DPRs in water supply, sewerage system



Major achievements:

Infrastructure Engineering Group (IEG)

IEG shapes the built environment of regional, urban and industrial scale projects with focus on socio-economic-environmental sustainability. Our expertise stems from our multi-disciplinary team integrating urban planning, design and infrastructure to ensure balance between environment, community and overall development. Our work provides the foundation for successful project implementation by developing strategic frameworks for growth through integration of disciplines and systems is our forte.

Infrastructure Design team creates a platform for the assimilation of planning initiatives with hardcore engineering. The aim of the IPD team is to provide innovative and sustainable planning solutions through integration of contemporary planning concepts and cutting-edge technology delivered by our multi-disciplinary team.

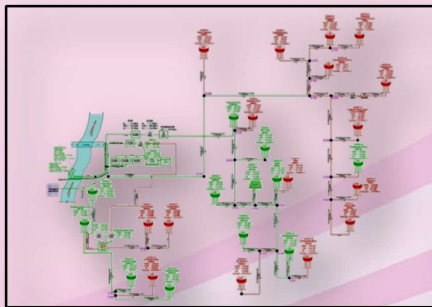
Our acumen lies in providing consultancy for projects right from its nascent stage to the final implementation at site, enriched by our extensive experience in feasibility studies, market assessment, master planning, engineering design and project management.

SERVICES

- Is one among five Consultants in Hyderabad who has both the wings of environment and infra projects handling at in house.
- VITVA is among the consultants who has prepared the DPRs for more than 3000 Crores worth of projects in water supply, EIA reports in Road Sector for more than 2000km with a cumulative cost of more than Rs.25000 Crores.
- VITVA is one among the consultants who are working in various metro rail or other railway related projects related to environmental related aspects.
- VITVA is one among the few consultants who have prepared, submitted and received approval of various execution drawings for Solid waste management project in Kolkata which is the first and only project in India Funding under JICA.
- VITVA is one among the consultants who also involved in E-waste and Solar related projects in India.

Water supply system

- 24x7 Water supply Distribution System using WaterGEMSv8i software and Hydraulic Modelling
- Water Quality Modelling
- Design of Pumping Mains using Water Hammer Software
- Water treatment plants Design
- Rural water supply systems
- Water quality compliance
- Water Audit i.e. NRW, UFW studies
- Design of irrigation channels
- Cost optimization techniques
- Project Management and Construction Supervision



**Schematic Flow Diagram
of Atmakur**

Show case Projects in Water Supply System :

Salem City Municipal Corporation.

Consultancy services for preparation of Detailed Project report (DPR) for Optimizing and Revamping of the Existing Water Supply Distribution System and Provision for SCADA for Salem City Municipal Corporation”

Tambaram City Municipal Corporation

Consulting Services for Preparation of Detailed Project Report for Integrated Water Supply Improvement Scheme with SCADA to Tambaram City Municipal Corporation

Kauru Municipality

Appointment of Consultant for Preparation of “Detailed Project Report (DPR) for Providing Water Supply to Karur Municipality for the Added Areas (Wards 33 to 36) including Source”

Koathanallur Municipality

Consultancy Services for Preparation of Detailed Project report (DPR) for Water Supply Distribution Network around 40 km and 2 OHTs in “Koathanallur Municipality, Tiruvarur District”.

Kannada Ganga Vojane Phase II – 24 x 7 Water supply to 16 Towns of Karnataka

Shimoga, Tumkur, Mandya, Hukkeri, Humnabad, ankeswar, Tiptur, Tirthahalli, Malur, Kadur, Birur, Srirangapatna, Sedam, Kushalnagar

Kothagudem Municipality

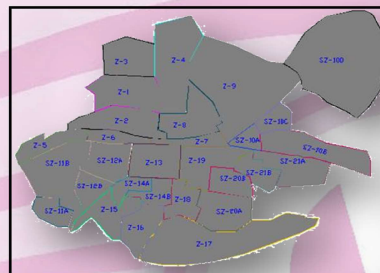
Comprehensive Water Supply Scheme to Kothagudem Municipality under Telangana Municipal Development Project (TMDP).

Khammam Municipal Corporation

Comprehensive Water Supply Scheme to Khammam Municipal Corporation under Mission Bhagiratha.

Jagtial Municipality

Comprehensive Water Supply Scheme to Jagtial Municipality under Mission Bhagiratha.



**DMA zoning of Mandya
City Water supply**

Water Supply Project List:

Sl. No.	Name of the Project	Brief Description of the work	Name of the Client	Total Cost of the Project Rs.	Funding Agency
1	Consulting Services for Preparation of Detailed Project Report for Integrated Water Supply Improvement Scheme with SCADA to Tambaram City Municipal Corporation (Population 2021- 8 Lakhs) Water Demand – 290 MLD	<ul style="list-style-type: none"> • present condition of existing Water Supply System in the project area including the source, raw water pumping main, booster stations, WTP, treated water pumping mains, GLSRs, Feeder mains, OHTs, Distribution system, House service connections, Electrical & Mechanical installations, Flow meters, SCADA arrangement if any etc. • Identifying critical bottlenecks and problems of the existing system, undertaking detailed reconnaissance survey of the Project area • Prepare O&M and Maintenance Management Plan and implementation plan and assess the manpower requirements • Preparation of Detailed Project Report 	Tambaram City Municipal Corporation	On going	WB
2	Consultancy services for preparation of Detailed Project report (DPR) for Optimizing and Revamping of the Existing Water Supply Distribution System and Provision for SCADA for Salem City Municipal Corporation”. (Population 2011 censuses 8,29,267) Water Demand 260.7 MLD, Base year 2025	<ul style="list-style-type: none"> • The Base year shall be considered as Year 2025 and Ultimate year is 2055. • Additional requirement of OHTs and Cost estimates for OHTs based on revised water demands for each zones. • Redesign of the distribution system for Packages 2 & 3 only (Except for the area where distribution system has already been implemented.) with HDPE PN8 up to 200mm dia. (ID) and above 200mm dia. DI K7. • Distribution system design shall be carried with 17m minimum residual pressure at every node in those zones where new OHT tanks are proposed. • Any source Augmentation study/surveys due to change in Design years i.e. Change in base year from 2010 to 2025 accordingly increase in water demand. • Carrying out topography survey as per requirement for pumping mains/gravity mains • Carrying capacity analysis of the of the existing sump capacities, transmission mains & feeder mains, any replacement/additional requirement. • The SCADA cost as considered in earlier DPR shall be taken in updated DPR. • Technical assistance in making the presentations as required 	Salem City Municipal Corporation.	Project cost Rs.764.46 crs	Under AMRUT/ PPP
3	Consultancy Services for Preparation of Detailed Project report (DPR) for Water Supply Distribution Network	<ul style="list-style-type: none"> • Design & Proposal of additional Raw Water Pumps, if required • Assessment of existing Transmission Main from Head Works to Filter Bed 	Koothanallur Municipality	Project Cost Rs. 20.97 crs	Under AMRUT

Sl. No.	Name of the Project	Brief Description of the work	Name of the Client	Total Cost of the Project Rs.	Funding Agency
	around 40 km and 2 OHTs in "Koothanallur Municipality, Tiruvarur District". (2011 Population 25,423) Water Demand 4.22 MLD	<ul style="list-style-type: none"> Design & Proposal of new Pipelines and/or replacement of existing pipelines Provision of Valves & Bulk Water Meters at key locations Assessment of existing Raw Water Pumps Hydraulic Design of Service Reservoir for each Zone/DMA as per MBC 			
4	Consultancy Services for Preparation of Detailed Project Report(DPR)-for improvement of Water Supply for Khammam Municipal Corporation. (2011 Population 1,84,210)	<ul style="list-style-type: none"> Assessment of existing Raw Water Pumps Design & Proposal of additional Raw Water Pumps, if required Assessment of existing Transmission Main from Head Works to Filter Bed Design & Proposal of new Pipelines and/or replacement of existing pipelines Provision of Valves & Bulk Water Meters at key locations Assessment of existing Filter Bed & Proposal for additional capacity of WTP Preparation of ESIA and ESMP reports 	The Commissioner , Khammam Municipal Corporation	Project Cost. 347.88 Crs	AMRUT/ WB
5	Consultancy Services for Network Design and Cost Estimates for 24/7 Water Supply Project in 16 Towns Karnataka DPR for Water supply. (2014 Population for 16 towns 13,27,850) 1. Shimoga, 2. Tumkur 3. Mandya 4. Tiptur 5. Humnabad 6. Sankeshwar 7. Sedam 8. Kadur 9. Malur 10. Srirangapatna 11. Birur 12. Chitguppa 13. Hukkeri 14. Tirthahalli 15. Kushalnagar 16. Bijapur	<ul style="list-style-type: none"> Site visits, Meeting with concerned officials of ULB/Board & Data Collection Preparation of Design Basis Report (DBR) for 24x7 Water Supply Scheme Population Forecast & Water Demand assessment Hydraulic Zoning of Distribution System for 24x7 water supply Hydraulic Design of Service Reservoir for each Zone/DMA as per MBC Hydraulic Design of Clear Water Storage Reservoir (GLSR) as per MBC Hydraulic Design of Pumps Preparation of Environmental & Social Assessment Reports Preparation of ESMP & ESIA report. 	KIPDC & IL&FS Infrastructure Development Corporation Ltd.	Project Cost: 1000 Crs	Proposed under KfD
6	Preparation of DPR for Improvements to Bulk Water Supply Scheme to Kothagudem Municipality	<ul style="list-style-type: none"> Assessment of existing Raw Water Pumps Design & Proposal of additional Raw Water Pumps, if required Assessment of existing Transmission Main from Head Works to Filter Bed Design & Proposal of new Pipelines 	Kothagudem Municipality Kothagudem, Khammam District, T.S	Project Cost. 49.09 Crs	WB

Sl. No.	Name of the Project	Brief Description of the work	Name of the Client	Total Cost of the Project Rs.	Funding Agency
		<ul style="list-style-type: none"> and/or replacement of existing pipelines. • Provision of Valves & Bulk Water Meters at key locations 			
7	Appointment of Consultant for Preparation of "Detailed Project Report (DPR) for Providing Water Supply to Karur Municipality for the Added Areas (Wards 33 to 36) including Source" (2011 Population 22,447) Water Demand 6.10 MLD, Area Sq.km 7.68	<ul style="list-style-type: none"> • Assessment of existing Raw Water Pumps • Design & Proposal of additional Raw Water Pumps, if required • Assessment of existing Transmission Main from Head Works to Filter Bed • Design & Proposal of new Pipelines and/or replacement of existing pipelines • Provision of Valves & Bulk Water Meters at key locations • Assessment of existing Filter Bed & Proposal for additional capacity of WTP • Preparation of ESIA and ESMP reports 	Project Development Grant Fund (PDGF) – Kauru Municipality	Project Cost. 68.49 Crs	Proposed World Bank
8	Preparation of DPR for Comprehensive Water Supply Scheme for Jagtial Municipal Council	<ul style="list-style-type: none"> • Preparation of revised DPR for Comprehensive Water Supply Distribution Network • Reviewing the existing situation, and undertaking necessary assessment • Feasibility Analysis and detailed planning • Capacity Enhancement and Sustainability 	Jagtial Municipal Council Jagtial, Karimnagar District, T.S	Project Cost. 36.79 Cr	AMRUT
9	Preparation of DPR for Comprehensive Rural Water Supply Scheme for Indore & Dhar Divisions (total 138 Villages)	<ul style="list-style-type: none"> • Scheme wise DPR including estimate and BoQ for NIT has to be prepared • Population forecasting considering base year as 2018 • House service connection for various villages • Design & Proposal of new Pipelines and/or replacement of existing pipelines • Provision of Valves & Bulk Water Meters at key locations 	Government of Madhya Pradesh, Public Health Divin. Indore & Dhar	Project Cost. 1750.03 Crs	MP Jal Nigam Ltd.
10	Design for water, waste water & recycled water network for 1000 acres of Bhubaneswar city under Smart City	<ul style="list-style-type: none"> • Consultancy Services for design for water, waste water & recycled water network for 1000 acres of Bhubaneswar city. 	Egis India Consulting Engineers Pvt. Ltd.	Project Cost Rs. 100.01 Crs	Smart City Funds
11	Design of proposed water supply network for 24X7 model based for 5 DMA zones of Mandya Water supply in Karnataka. (Population as on year 2011 is 1,31,000 and area 16.89 sq.km)	<ul style="list-style-type: none"> • Hydraulic modeling of feeder main of 25km length from Mandya city (Population as on Year 2011 is 1,31,000 and area 16.89 sq.km) entrance to feeder of different OHTs under 24X7 design of water supply distribution system. • Conducting topographic survey using GIS based of all roads including capturing all attributes. 	GKC Projects Ltd.	Project Cost. 140.01 Crs.	Funding Agency under AMRUT Scheme

Sl. No.	Name of the Project	Brief Description of the work	Name of the Client	Total Cost of the Project Rs.	Funding Agency
		<ul style="list-style-type: none"> Hydraulic modeling in DMA concept using Water GEMS software and design of 24X7 distribution system (63 km length) and its approval from competent authority. 			
12	Detailed project report (DPR)-For design of 600 MMD.I. Pipe line from outlet valve at Rajghat Dam to Chitora & Bannad Anicut	<ul style="list-style-type: none"> Consultancy Services for preparation of Detailed project report (DPR)-For design of 600 MMD.I. Pipe line from outlet valve at Rajghat Dam to Chitora & Bannad Anicut 	SagarMunicipal Corporation, Madhya Pradesh	Project Cost. 173.94 Crs	AMRUT
13	Consultancy Services for Hydraulic modeling of GIS based for preparation of Master Plan for 24X7 Water Supply distribution system for Chikmangalur City under AMRUT. (Population as on year 2011 is 1,18,000 and area 21.89 sq.km)	<ul style="list-style-type: none"> Hydraulic modeling of feeder main of 35 km length in overall from chikmagalur water source (2 locations) to city to MBR of 40 ML capacity under 24X7 design of Water Supply distribution system for distribution by gravity Conducting topographic survey using GIS based of all roads including capturing all attributes. Hydraulic modeling in DMA concept using Water GEMS software and design of 24X7 distribution system (85km length) and its approval from competent authority. 	GKC Projects Ltd.	Project Cost. 100.08 Crs	Funding Agency under AMRUT Scheme
14	DPR preparation for Rural Water Supply PURA Project for Sangli, Maharashtra, India	<ul style="list-style-type: none"> Preparation of Detailed Project Report for Water Supply System, Sanitation and Sewerage System, Municipal Solid Waste Management, Roads, Storm Water Drainage, and Street lighting-Conventional. 	SREI Infrastructure Finance Limited D-2, Southern Park, Saket Place, Saket, New Delhi, 110017	Project Cost. 49.83 Crs	JICA
15	Detailed Master Plan and Engineering Design for Development of Multi product SEZ at JNPT, Maharashtra (Design of 24X7 Water Supply Hydraulic Modeling of 16.7 km)	<ul style="list-style-type: none"> Collection of pertinent details from JNPT viz, Demand assessment, Conceptual Master Plan, etc Review the Reports submitted by E&Y and TCE to JNPT Review earlier Survey outputs and other Site studies Conduct Bore-hole Surveys, Traffic Surveys and Topographical Studies Prepare Detailed Master Plan 	L&T Infrastructure Engineering Limited	Project Cost. Rs. 52 Crs	JICA
16	Preparation of DPR for Comprehensive Water Supply Scheme (WSS) & Underground Drainage (UGD) System to Atmakur town under JnNURM-II (of Govt. of India)	<ul style="list-style-type: none"> Site visits, Meeting with concerned officials & Data Collection Population Forecast & Water Supply assessment Hydraulic Zoning of Water Supply Preparation of Feasibility Report (FR) for Water Supply Scheme Design of Water Supply Network by means of Hydraulic Modelling using Bentley's WaterGEMS, SewerGEMS v8i 	Atmakur Nagara Panchayat Atmakur, Kurnool District, AP.	Project Cost. 89.3 Crs	AMRUT

Sl. No.	Name of the Project	Brief Description of the work	Name of the Client	Total Cost of the Project Rs.	Funding Agency
		<ul style="list-style-type: none"> & SewerGEMS Sanitary v8i licensed softwares • Preparation of Detailed Cost Estimates with BoQ & Item Rate Analysis • Preparation of detailed drawings with proposed zoning, zone wise Water Supply network, etc. • Preparation of Operation & Maintenance Estimate with Recovery Plan • Preparation of Detailed Project Report (DPR) including all the above 			
17	Preparation of DPR for Comprehensive Water Supply Scheme (WSS) & Storm Water Drainage (SWD) System to Nandikotkur Municipal Corporation InNURM-II (of Govt. of India)	<ul style="list-style-type: none"> • Site visits, Meeting with concerned officials & Data Collection • Population Forecast & Water Supply assessment • Hydraulic Zoning of Water Supply • Preparation of Feasibility Report (FR) for Water Supply Scheme • Design of Water Supply Network by means of Hydraulic Modelling using Bentley's WaterGEMS, SewerGEMS v8i & SewerGEMS Sanitary v8i licensed softwares • Preparation of Detailed Cost Estimates with BoQ & Item Rate Analysis • Preparation of detailed drawings with proposed zoning, zone wise Water Supply network, etc. • Preparation of Operation & Maintenance Estimate with Recovery Plan 	Nandikotkur Municipal Corporation Nandikotkur, Kurnool District, A.P	Project Cost. 98.3 Crs.	AMRUT
18	Detailed Project Report and Bid documents for obtaining Financial Assistance from ADB for Package-II VCIC Water Supply Project – Naidupet (A.P) (WTP design 20 MLD)	<ul style="list-style-type: none"> • Providing water supply facilities of 1 TMC capacity to MPSEZ- Naidupet, IP-Naidupet and expansion areas by tapping water from kandaleru reservoir which includes construction of head works at the source, laying of 70km pumping main/gravity line up to MPSEZ-Naidupet/IP-Naidupet. 	L&T Infrastructure Engineering Limited	Project Cost. 106.31 Crs	ADB Funding
19	Consulting Services for Preparation of "Detailed Project Report (DPR) for the project Implementation of various rural water supply projects including O&M for 10 years in the state of Uttar Pradesh (Meerut & Aligarh districts) under Jaljeevan Mission". (No. of Villages – 798)	<ul style="list-style-type: none"> • Preparation of revised DPR for Comprehensive Water Supply Distribution Network • Reviewing the existing situation, and undertaking necessary assessment • Feasibility Analysis and detailed planning • Capacity Enhancement and Sustainability • Assessment of existing Raw Water Pumps • Design & Proposal of additional Raw Water Pumps, if required 	Power Mech Projects Limited	Project Cost. 1650 Crs	JJM

Sl. No.	Name of the Project	Brief Description of the work	Name of the Client	Total Cost of the Project Rs.	Funding Agency
		<ul style="list-style-type: none"> • Assessment of existing Transmission Main from Head Works to Filter Bed • Design & Proposal of new Pipelines and/or replacement of existing pipelines • Provision of Valves & Bulk Water Meters at key locations 			

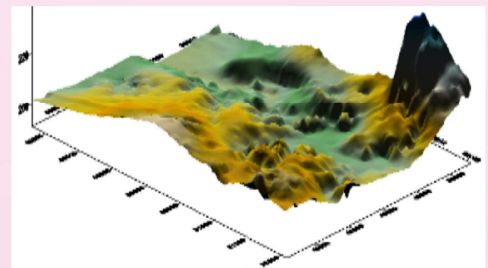
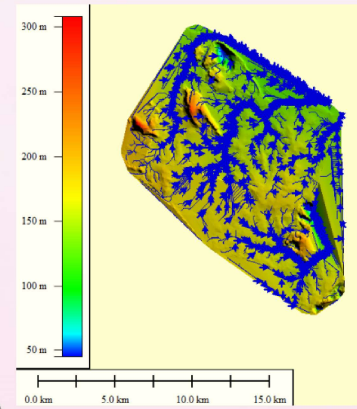
Sewerage system

- Design of Sewerage System using SewerGEMS v8i software
- Detailed design of STPs
- Cost optimization techniques
- Waste Water Recycle and Reuse techniques
- Project Management and Construction Supervision

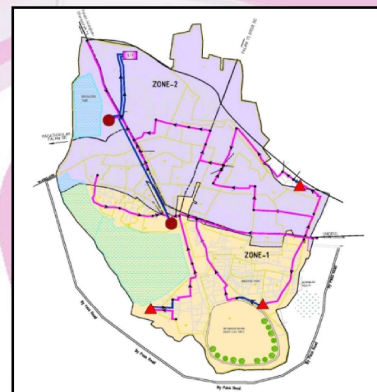
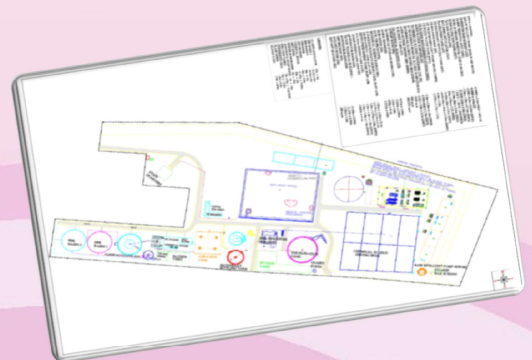
Show case Projects in Sewerage System:

DEM (Digital Elevation

- ✓ **Technical Assistance in Preparation of Detailed Projects for Sewerage and Storm Water Drainage System in 30 ULBs of Telangana.**
- ✓ **Technical Assistance in Preparation of Detailed Project Report (DPR) for providing Under Ground Sewerage Scheme in leftover / added areas in 8 towns (Delta & Southern Cluster) in Tamil Nadu.**
- ✓ **Technical Assistance in Preparation of Detailed Project Report (DPR) for providing Under Ground Sewerage Scheme in leftover / added areas in 6 towns (Northern Cluster) in Tamil Nadu.**
- ✓ **Consultancy Services for Preparation of Feasibility Report (FR) and Detailed Project Report (DPR) for providing Sewerage System in 7 Towns of Bihar under SPUR Package-I.**
Bhaktiyapur, Bihar Sharif, Danapur, Dehri, Fathua, Khagaul, Phulwari Sharif
- ✓ **Detailed Project Report for Sewerage System to Atmakur Nagara Panchayat** as per CPHEEO Norms
- ✓ **Consulting services for Preparation of Detailed Project Report (DPR) for Providing Under Ground Sewerage Scheme in Leftover / Added Areas of Nagercoil Corporation** from PDGF under Government of Tamil Nadu component
- ✓ **Consulting services for Preparation of Detailed Project Report (DPR) for Providing Under Ground Sewerage Scheme in Leftover / Added Areas of Madurai Corporation, Updating the DPR for Palani Municipality, DPR for Kallakurichi form PDGF under Government of Tamil Nadu component.**



**Topographical
survey**



Sewerage Project List:

Sl.No.	Name of the Project	Brief Description of the work	Name of the Client	Total Cost of the Project Rs.	Funding Agency
1	<p>Technical Assistance in Preparation of Detailed Projects for Sewerage System in 17 ULBs of Telangana under Package-I. (Total Sewer Network length 2007 km.)</p> <p>1.Karimnagar, 2.Vemulawada 3. Huzurabad 4.Jammikunta, 5.Ramagundam 6.Adilabad 7.Mancherial, 8.Bellampally 9. Mandamarri 10. Jagityal 11. Korutla 12.Metpalli 13. Bhainsa 14.Nirmal 15.Sircilla 16. Kagaznagar & 17. Peddapalli)</p>	<ul style="list-style-type: none"> • Preparation of DPR's for Sewerage and Drainage System for the ULB's • To study & analyze problems in implementation and O&M of existing/under implementation sewerage facilities in the ULB's of Telangana • Shall assess the BPL family in the ULB and estimate the cost of providing sewerage connections. • Carry out Preliminary Project Surveys and present Techno Economic • Site Visit to study the existing sewerage network developed • Design of Sewerage Network by means of Hydraulic Modelling using Bentley's SewerGEMS v8i & SewerGEMS Sanitary v8i licensed softwares 	Telanganan Municipal Development Project (Under WB) N. K. Buildcon Pvt. Ltd.	Project Cost. Rs. 3721 Crs	World Bank
2	<p>Technical Assistance in Preparation of Detailed Projects for Sewerage System in 13 ULBs of Telangana under Package-II. (Total Sewer Network length 1574 km.)</p> <p>1. Warangal 2. Parkal 3. Narsampet 4. Bhupalpally 5. Jangaon 6. Khammam 7. Madhira 8. Sattupally 9. Manuguru 10. Palwancha 11. Kothagdem 12. Yellandu 13. Mahabubabad</p>	<ul style="list-style-type: none"> • Preparation of DPR's for Sewerage and Drainage System for the ULB's • To study & analyze problems in implementation and O&M of existing/under implementation sewerage facilities in the ULB's of Telangana • Shall assess the BPL family in the ULB and estimate the cost of providing sewerage connections. • Carry out Preliminary Project Surveys and present Techno Economic • Site Visit to study the existing sewerage network developed • Design of Sewerage Network by means of Hydraulic Modelling using Bentley's SewerGEMS v8i & SewerGEMS Sanitary v8i licensed softwares 	Telanganan Municipal Development Project (Under WB) N.K. Buildcon Pvt. Ltd.	Project Cost. Rs. 3449Crs	World Bank
3	<p>Consultancy Services for Preparation of Feasibility Report (FR) and Detailed Project Report (DPR) for providing</p>	<ul style="list-style-type: none"> • Site visits, Meeting with concerned officials & Data Collection • Population Forecast & Sewage Flow assessment • Hydraulic Zoning of Sewerage System 	PBS Consultancy Services & Darashaw & Co,	Project Cost Rs. 895.94 Crores	SPUR under DFID

Sl.No.	Name of the Project	Brief Description of the work	Name of the Client	Total Cost of the Project Rs.	Funding Agency
	<p>Underground Drainage /Sewerage System in 7 Towns of Bihar under SPUR Package-I (Total Population 7, 94,579 –</p> <p>1.Bihar Shariff 2. Dehri 3. Danapur 4. Fatuha 5. Bhaktiyarpur 6. Khagaul 7. Pulwari Shariff</p>	<ul style="list-style-type: none"> • Preparation of Feasibility Report (FR) for Sewerage Scheme • Design of STP, Pumps, Rising Mains • Design of Sewerage Network by means of Hydraulic Modelling using Bentley's SewerGEMS v8i & SewerGEMS Sanitary v8i licensed softwares • Preparation of Detailed Cost Estimates with BoQ & Item Rate Analysis • Preparation of detailed drawings with proposed zoning, zone wise sewerage network, etc. • Preparation of Operation & Maintenance Estimate with Recovery Plan • Project Implementation Framework, Environmental & Social Aspects • Preparation of Detailed Project Report (DPR) including all the above 			
4	<p>Technical Assistance in Preparation of Detailed Project Report (DPR) for providing Under Ground Sewerage Scheme in leftover / added areas in 8 towns (Delta & Southern Cluster) in Tamil Nadu.</p> <p>1. Dindigul 2. Virudhunagar 3. Theni-Allinagaram 4. Karur 5. Mayiladuthurai 6. Namakkal 7. Pudukottai 8. Tiruvarur</p>	<ul style="list-style-type: none"> • Preparation of detailed profile of the town mapping socio economic, demographic administrative, physical, environmental, land use, historical, features of the study area. • Review the existing UGSS System including Storm Water Network. • Assess the present condition of the water supply for the entire Project area. • Shall evaluate the present status of sewage generation, storage and disposal practices in the prevailing UGSS in each of the towns. • The study should also cover the existing public conveniences available in the project area and its disposal mechanism. • For each of the ULB estimate the current population and projected population for base year, intermediate and ultimate years. • Based on the study, firm up the quantum of sewage generation including industrial sewage and their characteristics abase on water supply schemes. • Preparation of Topographic Survey (total station Survey) in the all ULBs • Identify sites for Sewage lift station / 	N K Buildcon Pvt. Ltd. Jaipur	Project Cost Rs. 802.73 cors	Proposed World Bank

Sl.No.	Name of the Project	Brief Description of the work	Name of the Client	Total Cost of the Project Rs.	Funding Agency
		<p>pumping stations in the project area.</p> <ul style="list-style-type: none"> • Preparation of Geotechnical Survey, soil test as per relevant I.S / IRC standards. • Preparation of STP Designs. • Preparation of Sewage Pumping Stations (SPS) and Lift Stations (LS) 			
5	<p>Technical Assistance in Preparation of Detailed Project Report (DPR) for providing Under Ground Sewerage Scheme in leftover / added areas in 6 towns (Northern Cluster) in Tamil Nadu.</p> <p>1.Krishnagiri 2.Dharmapuri 3. Maraimalai Nagar 4. Cuddalore 5. Vellore 6. Thiruvanamalai</p>	<ul style="list-style-type: none"> • Preparation of detailed profile of the town mapping socio economic, demographic administrative, physical, environmental, land use, historical, features of the study area. • Review the existing UGSS System including Storm Water Network. • Assess the present condition of the water supply for the entire Project area. • Shall evaluate the present status of sewage generation, storage and disposal practices in the prevailing UGSS in each of the towns. • The study should also cover the existing public conveniences available in the project area and its disposal mechanism. • For each of the ULB estimate the current population and projected population for base year, intermediate and ultimate years. • Based on the study, firm up the quantum of sewage generation including industrial sewage and their characteristics abase on water supply schemes. • Preparation of Topographic Survey (total station Survey) in the all ULBs • Identify sites for Sewage lift station / pumping stations in the project area. • Preparation of Geotechnical Survey, soil test as per relevant I.S / IRC standards. • Preparation of STP Designs. • Preparation of Sewage Pumping Stations (SPS) and Lift Stations (LS) 	N K Buildcon Pvt. Ltd. Jaipur	Project Cost Rs. 1263. 14 Cros	WB
6	Preparation of DPR for Comprehensive Water Supply Scheme (WSS) & Underground Drainage (UGD) System to Atmakur town under InNURM-	<ul style="list-style-type: none"> • Site visits, Meeting with concerned officials & Data Collection • Population Forecast & Sewage Flow assessment • Hydraulic Zoning of Sewerage System • Preparation of Feasibility Report 	Atmakur Municipality	Total Project Cost. Rs. 89.3 Crs	Funding Agency under AMRUT

Sl.No.	Name of the Project	Brief Description of the work	Name of the Client	Total Cost of the Project Rs.	Funding Agency
	II (of Govt. of India)	<p>(FR) for Sewerage Scheme</p> <ul style="list-style-type: none"> • Design of Sewerage Network by means of Hydraulic Modelling using Bentley's WaterGEMS, SewerGEMS v8i & SewerGEMS Sanitary v8i licensed softwares • Preparation of Detailed Cost Estimates with BoQ & Item Rate Analysis • Preparation of detailed drawings with proposed zoning, zone wise sewerage network, etc. • Preparation of Operation & Maintenance Estimate with Recovery Plan • Preparation of Detailed Project Report (DPR) including all the above 			
7	Consulting services for Preparation of Detailed Project Report (DPR) for Providing Under Ground Sewerage Scheme in Leftover / Added Areas of Nagercoil Corporation from PDGF under Government of Tamil Nadu component	<ul style="list-style-type: none"> • Preparation of detailed profile of the town mapping socio economic, demographic administrative, physical, environmental, land use, historical, features of the study area. • Review the existing UGSS System including Storm Water Network. • Assess the present condition of the water supply for the entire Project area. • Shall evaluate the present status of sewage generation, storage and disposal practices in the prevailing UGSS in each of the towns. • The study should also cover the existing public conveniences available in the project area and its disposal mechanism. • For each of the ULB estimate the current population and projected population for base year, intermediate and ultimate years. • Based on the study, firm up the quantum of sewage generation including industrial sewage and their characteristics abase on water supply schemes. • Preparation of Topographic Survey (total station Survey) in the all ULBs • Identify sites for Sewage lift station / pumping stations in the project area. • Preparation of Geotechnical Survey, soil test as per relevant I.S / IRC standards. • Preparation of STP Designs. 	N K Buildcon Pvt. Ltd. Jaipur	Completed	Proposed World Bank

Sl.No.	Name of the Project	Brief Description of the work	Name of the Client	Total Cost of the Project Rs.	Funding Agency
8	Consulting services for Preparation of Detailed Project Report (DPR) for Providing Under Ground Sewerage Scheme in Leftover / Added Areas of Madurai Corporation, form PDGF under Government of Tamil Nadu component	<ul style="list-style-type: none"> • Preparation of Sewage Pumping Stations (SPS) and Lift Stations (LS) • Preparation of detailed profile of the town mapping socio economic, demographic administrative, physical, environmental, land use, historical, features of the study area. • Review the existing UGSS System including Storm Water Network. • Assess the present condition of the water supply for the entire Project area. • Shall evaluate the present status of sewage generation, storage and disposal practices in the prevailing UGSS in each of the towns. • The study should also cover the existing public conveniences available in the project area and its disposal mechanism. • For each of the ULB estimate the current population and projected population for base year, intermediate and ultimate years. • Based on the study, firm up the quantum of sewage generation including industrial sewage and their characteristics abase on water supply schemes. • Preparation of Topographic Survey (total station Survey) in the all ULBs • Identify sites for Sewage lift station / pumping stations in the project area. • Preparation of Geotechnical Survey, soil test as per relevant I.S / IRC standards. • Preparation of STP Designs. • Preparation of Sewage Pumping Stations (SPS) and Lift Stations (LS) 	N K Buildcon Pvt. Ltd. Jaipur	Completed	Proposed World Bank
9	Consulting services for Preparation of Detailed Project Report (DPR) for Providing Under Ground Sewerage Scheme in Leftover / Added Areas of Palani Municipality form PDGF under Government of Tamil	<ul style="list-style-type: none"> • Preparation of detailed profile of the town mapping socio economic, demographic administrative, physical, environmental, land use, historical, features of the study area. • Review the existing UGSS System including Storm Water Network. • Assess the present condition of the water supply for the entire Project area. • Shall evaluate the present status of 	N K Buildcon Pvt. Ltd. Jaipur	Completed	Proposed World Bank

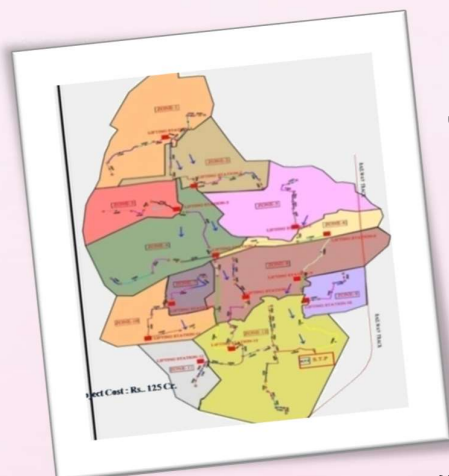
Sl.No.	Name of the Project	Brief Description of the work	Name of the Client	Total Cost of the Project Rs.	Funding Agency
	Nadu component	<p>sewage generation, storage and disposal practices in the prevailing UGSS in each of the towns.</p> <ul style="list-style-type: none"> • The study should also cover the existing public conveniences available in the project area and its disposal mechanism. • For each of the ULB estimate the current population and projected population for base year, intermediate and ultimate years. • Based on the study, firm up the quantum of sewage generation including industrial sewage and their characteristics abase on water supply schemes. • Preparation of Topographic Survey (total station Survey) in the all ULBs • Identify sites for Sewage lift station / pumping stations in the project area. • Preparation of Geotechnical Survey, soil test as per relevant I.S / IRC standards. • Preparation of STP Designs. • Preparation of Sewage Pumping Stations (SPS) and Lift Stations (LS) 			
10	Consulting services for Preparation of Detailed Project Report (DPR) for Providing Under Ground Sewerage Scheme in Leftover / Added Areas of Kallakurichi form PDGF under Government of Tamil Nadu component	<ul style="list-style-type: none"> • Preparation of detailed profile of the town mapping socio economic, demographic administrative, physical, environmental, land use, historical, features of the study area. • Review the existing UGSS System including Storm Water Network. • Assess the present condition of the water supply for the entire Project area. • Shall evaluate the present status of sewage generation, storage and disposal practices in the prevailing UGSS in each of the towns. • The study should also cover the existing public conveniences available in the project area and its disposal mechanism. • For each of the ULB estimate the current population and projected population for base year, intermediate and ultimate years. • Based on the study, firm up the quantum of sewage generation including industrial sewage and their characteristics abase on water supply schemes. 	N K Buildcon Pvt. Ltd. Jaipur	Completed	Proposed World Bank

Sl.No.	Name of the Project	Brief Description of the work	Name of the Client	Total Cost of the Project Rs.	Funding Agency
		<ul style="list-style-type: none"> • Preparation of Topographic Survey (total station Survey) in the all ULBs • Identify sites for Sewage lift station / pumping stations in the project area. • Preparation of Geotechnical Survey, soil test as per relevant I.S / IRC standards. • Preparation of STP Designs. • Preparation of Sewage Pumping Stations (SPS) and Lift Stations (LS) 			
11	Consultancy for Preparation of Technical input report for the DPR preparation for PURA Project for Sangli, Maharashtra, India	<ul style="list-style-type: none"> • Sewerage System • Zoning as per standard guidelines • Sewer network System Design • Sewage Treatment Plant-Variou Units & Treatment methods • Manholes- locations • Pumping Stations • Outwall Sewers • Provision of service connections to household • Design of Sewerage Network by means of Hydraulic Modelling using Bentley's SewerGEMS v8i & SewerGEMS Sanitary v8i licensed software's 	Sangli, Maharashtra	Project Cost Rs. 45 Crores	Funding Agency under JICA
12	Detailed Master Plan and Engineering Design for Development of Multi product SEZ at JNPT, Maharashtra	<ul style="list-style-type: none"> • Collection of pertinent details from JNPT viz, Demand assessment, Conceptual • Master Plan, etc • Review the Reports submitted by E&Y and TCE to JNPT • Review earlier Survey outputs and other Site studies • Conduct Bore-hole Surveys, Traffic Surveys and Topographical Studies • Prepare Detailed Master Plan 	L&T Infrastructure Engineering Limited	Project Cost. Rs. 35.00 Crs	Funding Agency under JICA
13	Preparation of Detailed Engineering Drawing for Sewerage Project for Patna (Bihar).	<ul style="list-style-type: none"> • Site visits, Meeting with concerned officials & Data Collection • Preparation of DGPS, GIS and Ground Penetrating Radar Survey (GPRS) • Preparation of Design Basis Report • Detailed Engineering / Hydraulic studies • Preparation of General Arrangement and Reinforcement NILDrawings for Manholes. • Detection and Mapping of Underground Utilites. • Generation of data to prepare L section of entire Network • Design of Sewerage Network by 	VA TECH WABAG Limited, Patna	Project Cost: Rs. 1250.22 Crs	under AMRUT

Sl.No.	Name of the Project	Brief Description of the work	Name of the Client	Total Cost of the Project Rs.	Funding Agency
		<p>means of Hydraulic Modelling using Bentley's SewerGEMS v8i & SewerGEMS Sanitary v8i licensed softwares</p> <ul style="list-style-type: none"> • Preparation of Detailed Cost Estimates with BoQ & Item Rate Analysis • Preparation of Detailed Survey Report for the Pumping Station Area. • Preparation of Operation & Maintenance Estimate with Recovery Plan 			
14	Design for water, waste water & recycled water network for 1000 acres of Bhubaneswar Smart city.	<ul style="list-style-type: none"> • To quantify the amount of Sewage generation from the proposed area • Site Visit to study the existing sewerage network developed • Review the topography of the project area and propose gravity system including pumping stations and pumping mains. • Preparation of Design Basis Report confirming to the stipulated standards • Detailed hydraulic design of the collection network and pumping system • Preparation of detailed technical specifications for all civil, structural, electrical and mechanical items 	Egis India Consulting Engineers Pvt. Ltd.	Project Cost Rs. 100.01 Crs	Funding Agency under AMRUT
15	Consultancy Services for Preparation of DPR for the work comprehensive Survey / Sewerage System and any other suitable provisions to stop merging of waste water into the limit of Panchkula MC coming from unauthorized colonies of otherwise entering into natural Choe/Nallahs/Ghaggar ultimately merging to the Yamuna River. Panchkula Municipal Corporation	<ul style="list-style-type: none"> • Site visits, Meeting with concerned officials & Data Collection • Population Forecast & Sewage Flow assessment • Hydraulic Zoning of Sewerage System • Preparation of Feasibility Report (FR) for Sewerage Scheme • Design of Sewerage Network by means of Hydraulic Modelling using Bentley's WaterGEMS, SewerGEMS v8i & SewerGEMS Sanitary v8i licensed softwares • Preparation of Detailed Cost Estimates with BoQ & Item Rate Analysis • Preparation of detailed drawings with proposed zoning, zone wise sewerage network, etc. • Preparation of Operation & Maintenance Estimate with Recovery Plan 	Municipal Corporation Panchkula	Project Cost Rs.31.82 Crs	under AMRUT
16	Consultancy Services for Preparation of DPR for the work	<ul style="list-style-type: none"> • Sewerage System • Zoning as per standard guidelines • Sewer network System Design 	Municipal Corporation Panchkula	Project Cost Rs.60.75 Crs	Funding Agency under

Sl.No.	Name of the Project	Brief Description of the work	Name of the Client	Total Cost of the Project Rs.	Funding Agency
	comprehensive survey / Sewerage and water supply scheme in various villages of Municipal corporation Panchkula.	<ul style="list-style-type: none"> • Sewage Treatment Plant-Various Units & Treatment methods • Manholes- locations • Pumping Stations • Outwall Sewers • Provision of service connections to household • Design of Sewerage Network by means of Hydraulic Modelling using Bentley's SewerGEMS v8i & SewerGEMS Sanitary v8i licensed software's 			AMRUT

Storm water Drainage Management:



- Design of Storm water Management System using StormCAD software
 - Detailed Calculations of IDF curves based on various techniques and arriving at Best Rainfall data
 - Cost optimization techniques
- Waste Water Recycle and Reuse techniques

Show case Projects in Storm water Drainage Project :

1. DPR for ISWD for **Tambaram City Municipal Corporation**
2. DPR for Storm Water Drainage System in **30 ULBs of Telangana (Package I & Package II)**.
3. DPR for Storm Water Drainage, PURA project in **Sangli, Maharashtra**
4. Storm water Drainage project for **Nandikotkur Municipality, AP**

Storm Water Drainage Project List:

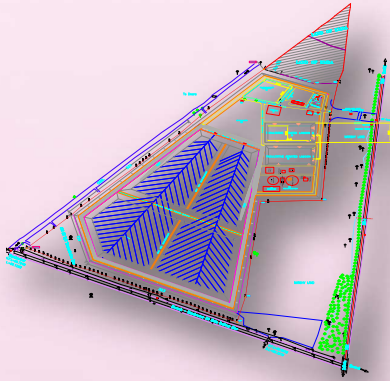
S.No.	Name of the Project	Brief Description of the work	Name of the Client	Cost of the Project Rs.	Funding Agency
1	Technical Assistance in Preparation of Detailed Projects for Storm Water Drainage in 17 ULBs of Telangana under Package-I. 1.Karimnagar 2.Vemulawada 3.Huzurabad 4.Jammikunta 5.Ramagundam 6.Adilabad 7.Mancherial 8.Bellampally 9.Mandamarri 10. Jagityal 11. Korutla 12.Metpalli 13. Bhainsa 14.Nirmal 15.Sircilla 16. Kagaznagar 17. Peddapalli	<ul style="list-style-type: none"> • Preparation of DPR's for Drainage System for the ULB's • To study & analyze problems in implementation and O&M of existing/under implementation facilities in the ULB's of Telangana • Shall assess the BPL family in the ULB and estimate the cost of providing storm connections. • Carry out Preliminary Project Surveys and present Techno Economic • Site Visit to study the existing sewerage network developed • Design of Storm Drainage Network by means of Hydraulic Modelling using Bentley's StormCAD v8i & SewerGEMS Sanitary v8i licensed softwares 	Telanagan Municipal Development Project (Under WB) N. K. Buildcon Pvt. Ltd.	Project Cost. Rs. 1079.99 Crs	World Bank
2	Technical Assistance in Preparation of Detailed Projects for Storm Water Drainage in 13 ULBs of Telangana under Package-II.	<ul style="list-style-type: none"> • Preparation of DPR's for Sewerage and Drainage System for the ULB's • To study & analyze problems in implementation and O&M of existing/under implementation sewerage facilities in the ULB's 	Telanagan Municipal Development Project (Under WB) N. K. Buildcon Pvt. Ltd.	Project Cost. Rs. 1714.33 Crs	World Bank

S.No.	Name of the Project	Brief Description of the work	Name of the Client	Cost of the Project Rs.	Funding Agency
	1. Waranagal 2.Parkal 3.Narsampet 4.Bhupalpally 5.Jangaon 6.Khammam 7.Madhira 8.Sattupally 9.Manuguru 10.Palwancha 11.Kothagdem 12.Yellandu 13. Mahabubabad	of Telangana <ul style="list-style-type: none"> • Shall assess the BPL family in the ULB and estimate the cost of providing sewerage connections. • Carry out Preliminary Project Surveys and present Techno Economic • Site Visit to study the existing sewerage network developed • Design of Storm Drainage Network by means of Hydraulic Modelling using Bentley's StormCAD v8i & SewerGEMS Sanitary v8i licensed softwares 			
3	"Preparation of Detailed Project Report (DPR) for providing Integrated Storm Water Drains (ISWD) in Tambaram City Municipal Corporation, Mangadu, Kundrathur and Nanthivaram - Guduvanchery Urban Local Bodies (ULBs)"	<ul style="list-style-type: none"> • Project area is about 185.71 sq.km. • Reviewing and integrating the existing /ongoing/proposed • Identifying critical bottlenecks and problems • Preparation of GIS base maps • Hydrological Modeling • Preparation of DPR 	Project Development Grant Fund (PDGF)	Ongoing	Funded by IBRD
4	Preparation of DPR for Comprehensive Water Supply Scheme (WSS) & Storm Water Drainage (SWD) System to Nandikotkur Municipal Corporation InNURM-II (of Govt. of India)	<ul style="list-style-type: none"> • Detailed Engineering survey including fly leveling @ 30M Intervals and fixing of temporary Bench Marks with reference to GTS • Detailed Engineering / Hydraulical studies • Preparation of DPR for Storm Water Drainage • Identify areas affected by flooding areas and the causes of the flooding and evolving Options for mitigation • Identifying the high priority drains • Preparation of design parameters & design proposals • Feasibility study with techno economic options and Preparation of detailed project reports for the selected option proposals. 	Municipal Corporation Nandikotkur	Project Cost. 98.3 Crs.	Funding Agency under AMRUT Scheme
5	DPR preparation for Rural Water Supply PURA Project for Sangli, Maharashtra, India	<ul style="list-style-type: none"> • Preparation of Detailed Project Report for Water Supply System, Sanitation and Sewerage System, Municipal Solid Waste Management, Roads, Storm Water Drainage, and Street lighting- 	SREI Infrastructure Finance Limited D-2, Southern Park, Saket Place, Saket, New Delhi,	Project Cost. 49.83 Crs	JICA

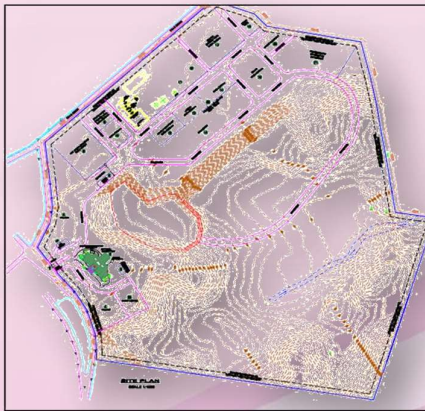
S.No.	Name of the Project	Brief Description of the work	Name of the Client	Cost of the Project Rs.	Funding Agency
		Conventional.	110017		
6	Preparation of Detailed Project Report (DPR) for Comprehensive Storm Water Drainage for Bikaner Municipal Corporation.	<ul style="list-style-type: none"> • Carry out Preliminary Project Surveys and present Techno Economic • Detailed Engineering / Hydraulical studies • Identify areas affected by flooding areas and the causes of the flooding and evolving Options for mitigation • Identifying the high priority drains 	Bikaner Municipal Corporation, Bikaner	Project Cost. 55.95 Crs	Under AMRUT
7	Preparation of Detailed Project Report (DPR) for Comprehensive Storm Water Drainage for Bhilwara Municipal Council.	<ul style="list-style-type: none"> • Detailed Engineering / Hydraulical studies • Preparation of DPR for Storm Water Drainage • Identify areas affected by flooding areas and the causes of the flooding and evolving Options for mitigation • Identifying the high priority drains • Preparation of design parameters & design proposals 	Municipal Council Bhilwara, Bhilwara (RAJ)	Project Cost. 47.03 Crs	Under AMRUT
8	Preparation of Detailed Project Report (DPR) for Comprehensive Storm Water Drainage for Beawar Municipal Council.	<ul style="list-style-type: none"> • Storm water drainage network – system designed using in house tools of Microsoft Excel based Toolkit • Preparation of detailed project report for Storm Water drainage 	Beawar Municipal Council, Beawar (RAJ)	Project Cost. 49.06 Crs	Under AMRUT
9	Preparation of Detailed Project Report (DPR) for Providing Integrated Storm Water Drainage (ISWD) in Tambaram City Municipal Corporation, Mangadu, Kundrathur and Nanthivaram - Guduvanchery Urban Local Bodies (ULBs)	<ul style="list-style-type: none"> • Identify areas affected by flooding areas and the causes of the flooding and evolving Options for mitigation • Identifying the high priority drains • Storm water drainage network – system designed using StormCAD Software • Preparation of detailed project report for Storm Water drainage 	TNUJFSL, Chennai - Client In JV with M/s. MSV International, Gurgaon	Project Cost- 1750 Cr.	Under World Bank

Solid waste Management

- Design of Municipal Solid Waste Management and treatment facility including composting facility
- Design of Industrial Solid waste Management facility
- Design of secured landfill facility as per the CPCB guidelines for industrial and Municipal Waste Facility



**KMDA SWM project
at Baidyabati**



**MEPL Hazardous waste project at
Ranjangaon, Pune**

Show case Projects in Solidwaste Management Sector :

IL&F Eco-smart Limited.

Environmental clearance for Integrated Municipal Solid Waste Management project in Ludhian City (Jamalpur and Jainpur Sites) in Punjab

Kadam Environmental Consultants, Vadodara

Inventory of Contaminated Sites Under the World Bank Assisted Capacity Building for Industrial Pollution Management Project in the States of Andhra Pradesh, Tamil Nadu, Kerala, Karnataka, Pondicherry

SMS Infrastructure Ltd. Nagpur

Design and Detailed Engineering including Environmental Services for Municipal Solid waste Landfill site near Baidyabati in Kolkata under JICA funded Project

Maharashtra Enviro Power Ltd, Pune

Design and Detailed Engineering including Environmental Services for Industrial/Hazardous waste Landfill site near Ranjangaon, Pune

Solid waste Management Project List:

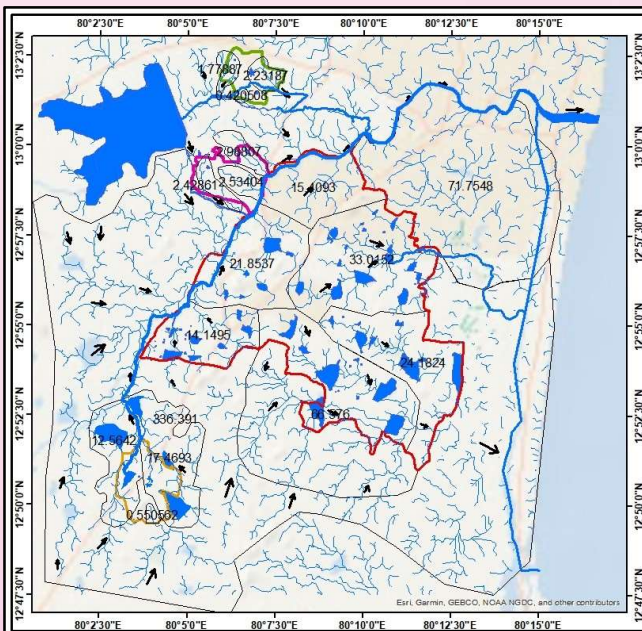
S.No.	Name of the Assignment	Brief Description of the work	Name of the Client & Country of Assignment	Project Cost	Funding Agency
1	Design of second double liner secured landfill site and preparation of detailed drawings and construction for the new landfill Project at Ranjangaon, Pune	<ul style="list-style-type: none"> • Site visits, Meeting with concerned officials & Data Collection • Conducting VES study at about 15 locations and soil boring tests two locations. • Study of flow on natural nallah and its diversion options as required • Design of landfill for phase II area for about 1.25 lakh MT Capacity • Preparation of cost estimates including detailed BoQs alongwith detailed technical specifications. • Preparation of draft layout plan for the project. 	SMS Infrastructure Ltd	Project Cost. 59.4 Crs	AMRUT
2	Design of secured landfill III, IV & Storm water drain system at Plot no P, 56 and submission of detailed drawings for execution at Ranjangaon, Pune	<ul style="list-style-type: none"> • Conducting detailed topographical survey for the total area of Plot no p-56 of MEPL • Design of Phase IV & III Landfill areas • Submission of the design calculation for slope stability of landfill III & IV & get the same vetted by any third party. • Designing for strom water drain and get it vetted by third party & necessary calculation details • Study of flow of natural Nallah and its diversion options and design of storm water network for total project area and disposal to nearby MIDC drainage system • Preparation of General Arrangement drawings for Land fills area including liner system for Phase-III & IV area and for Strom water network drawings. • Preparation of Comprehensive Layout for the Project. 	Maharashtra Enviro Power Ltd	Project Cost Rs. 66.09 Crores	AMRUT
3	Design of KMDA Landfill site at Baidyabati along with other auxiliary units & detailed engineering	<ul style="list-style-type: none"> • Geotechnical Survey and V.E.S • Preparation of layout plan for the project • Design of leachate collection, 	SMS Infrastructure Limited	Project Cost Rs. 66.02	JICA

S.No.	Name of the Assignment	Brief Description of the work	Name of the Client & Country of Assignment	Project Cost	Funding Agency
	for Municipal Solid Waste (MSW) project at Kolkata.	<p>treatment and disposal including piping network</p> <ul style="list-style-type: none"> Detailed Design for Road network and buffer zone, sections of road crossing within site, Landscaping work Preparation and approval of GA and HFD for LTP Preparation of detailed GA and structural design for Digester Preparation and approval of balance units of LTP designs & Drawings control building, sludge dewatering unit, relay tanks, sludge storage tank Preparation and approval of layout for Electrical Distribution 		Crores	
4	Consultancy services for conducting EIA and obtaining Environmental Clearance for the integrated municipal Solid Waste Management Project in Ludhiana city (Jamalpur and Jainpur sites), Punjab	<ul style="list-style-type: none"> Justification for selecting the proposed municipal Solid Waste handling capacity. Land requirement for the project including its break up for various purpose, its availability and optimization. Details on each unit in the facility describing its operations Details on the waste collection system – compliance to the statutory requirements and description of proposed operations Details of the present Solid Waste Management system – Population covered, area of the city / ULB, Climate and rainfall data, expected quantity of municipal Solid Waste Generated 	IL&FS Ecosmart Limited	Project Cost Rs. 53.04 Crores	AMRUT
5	Consultancy Services for Detailed Master Plan and Engineering Design for a Multiproduct SEZ at JNPT, Maharashtra.	<ul style="list-style-type: none"> Effectively manage quantity of municipal solid waste generated i.e 25MT/day Holistic approach to all waste streams thus maximizing synergetic benefits in collection, recycling, treatment & disposal, suggest suitable technology, method and equipment for managing municipal solid 	L&T Infrastructure Engineering Limited	Project Cost. 52.04 Crs	Funding Agency JICA

S.No.	Name of the Assignment	Brief Description of the work	Name of the Client & Country of Assignment	Project Cost	Funding Agency
		waste ensure safe disposal of waste and treat the waste as per Municipal Waste Management and Handling Rules 2000 for a capacity of 25MT/Day.			
6	Preparation of Detailed Project Report for Water Supply System, Sanitation and Sewerage System, Municipal Solid Waste Management, Roads, Storm Water Drainage, and Street lighting-Conventional.	<ul style="list-style-type: none"> • Data Collection and Stakeholder Consultation regarding for polluting sources and path tracing with GIS • Quantity the discharge of effluent in to the water bodies • Assessment of characteristic of waste water and identifying the type impact • Preparation of action plan with impact mitigation plan 	SREI Infrastructure Finance Limited	Project Cost. 49.83 Crs	Funding Agency under Central Govt. PURA
7	Filling up desired questionnaire for Inventory of Contaminated Sites on the basis of Personal Meetings with SPCBs, Industries departments, Industrial development corporations, research institutes, TSDFs, CETP, NGOs, Municipal bodies etc. & structured questionnaire by post where required for circulation of get leads	<p>Solid Waste Management:</p> <ul style="list-style-type: none"> • Data Collection and Stakeholder Consultation regarding for polluting sources and path tracing with GIS • Quantity the discharge of effluent in to the water bodies • Assessment of characteristic of waste water and identifying the type impact • Preparation of action plan with impact mitigation plan 	KADAM Environmental Consultants	Project Cost. 49.02 Crs	World Bank funded

GIS and its Applications:

- Topographical mapping, Cadastral and Parcel mapping
- Preparation of base Maps
- Preparation of Land Use and land Cover Maps (LULC) using high resolution satellite remote sensing data.
- DIGITAL ELEVATION MODEL preparation from extracting various satellite images.
- Generation of Thematic Maps
- Generation of Raster interpolation and Flood analysis.
- Preparation of Hydrological mapping
- Multisource data capture, conversion and integration



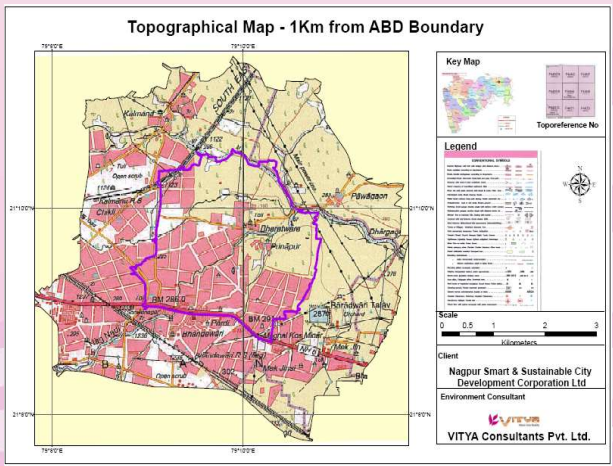
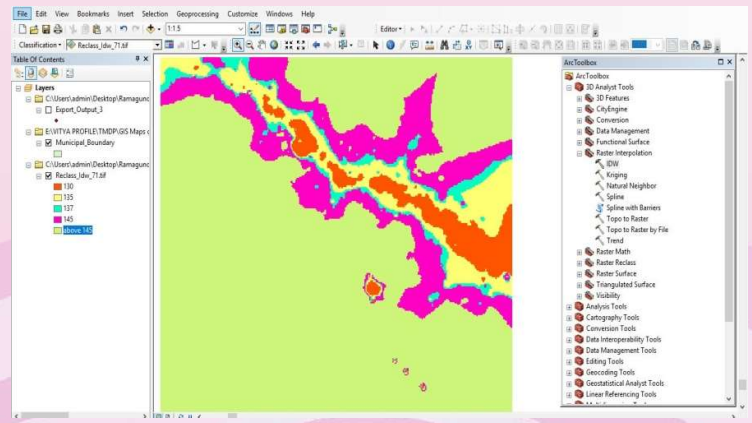
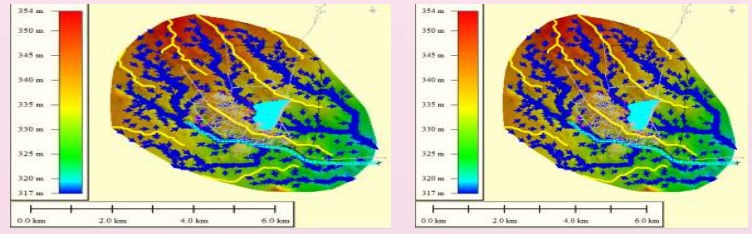
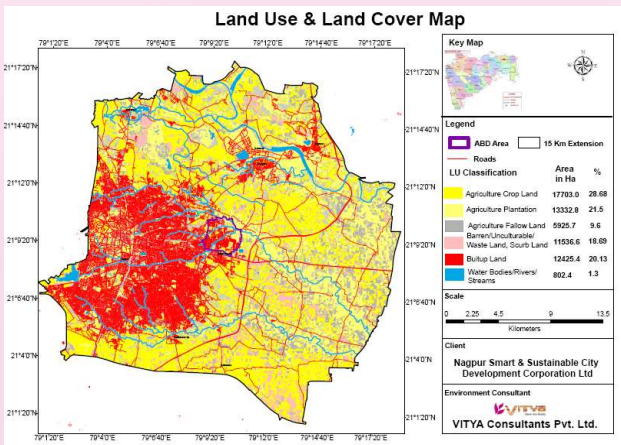
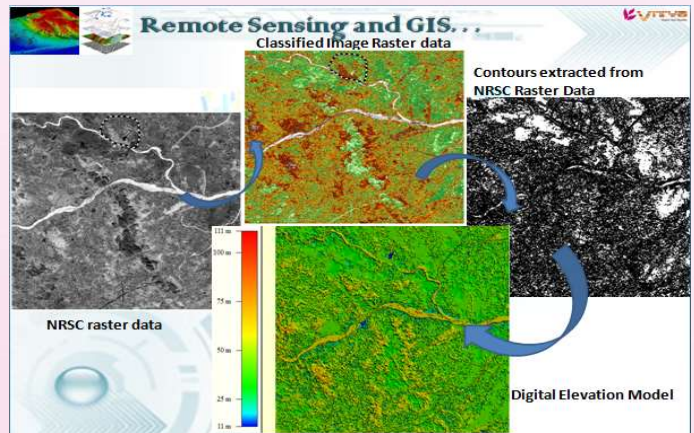
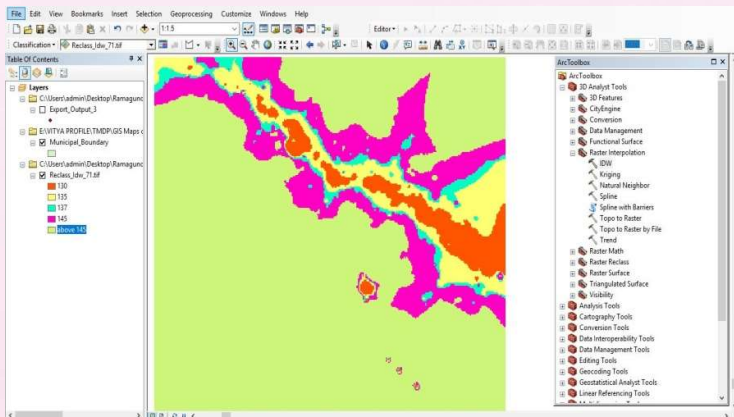
GIS Mapping

Show case Projects in GIS & Master Plan Project :

1. Detailed **Master Plan** and Engineering for Water, Wastewater and Solid waste Management for JNPT.



Master Plan

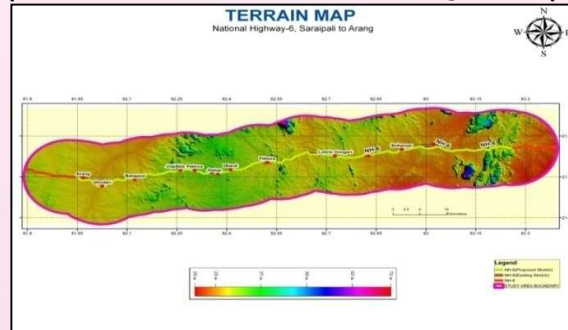




ENVIRONMENT MANAGEMENT SERVICES

At VITYA, our motto is to carefully plan the environmental outcome of each of our projects. When we think projects, we think of sustainability. We work in partnership with clients to strive for the twin goals of project sustainability and excellence.

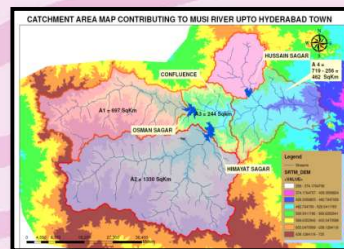
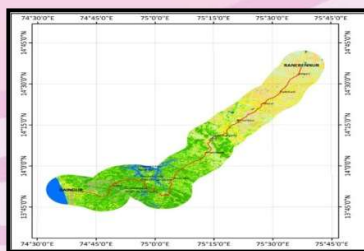
Capitalizing on our experience of over a decade, we have been managing nearly all aspects of environmental planning and sustainability, from regulatory compliance to green buildings. Our key focus is on Environmental Compliance Management, energy efficiency, solid and hazardous waste management, Impact Assessment with Management Plan, Environmental Site Assessment, Environmental Auditing, Due Diligence study, Social Impact Assessments including R&R and RAP study. We have delivered more than 30 projects that have successfully cleared all stringent environmental prerequisites.



SERVICES

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

- ❖ Roads, Metro, Rail Development Projects
- ❖ Industrial Estates , SEZs, EPZs etc.,
- ❖ Common/Combined Effluent Treatment Plants
- ❖ Building and Construction projects, Area development projects
- ❖ Environmental Audit and Risk Assessment
- ❖ Environmental Monitoring and Environmental Field Studies
- ❖ Post Clearance compliance of projects
- ❖ Coastal Zone Management Studies
- ❖ Forest Clearances etc.,
- ❖ Ecology and Biodiversity studies
- ❖ Due diligence studies



CETP Projects

CETP Sector

ACCEPT Environment Solutions Private Limited

EIA Studies and Obtaining EC from SEIAA Kerala for CETP at Chandiroor, Alappuzha.

Sree Bhavani Dyeing Cluster Development Limited

EIA study and obtaining clearance for the proposed project from SEIAA for implementation of Zero Liquid Discharge based CETP with Solar Thermal System at Bhavani, Erode (Dist), TN.

Kadayampatti Common Effluent Treatment Plant

EIA study and to obtain the Environmental Clearance (EC) for the proposed project from SEIAA / MoEF & CC for implementation of Zero Liquid Discharge based CETP & Captive Power Plant (CPP) with Cogen at Kadayampatti, Bhavani(TK), Dst. Erode-T.N.

Hingna CETP Industrial Co-operative Society Limited

Environmental Clearance for 2.0 MLD Capacity of Hingna Industrial area ,Nagpur

Ramky Infrastructure Ltd

Environmental Clearance for 50MLD new CETP for Tarapur Industrial estate in Maharashtra by Ramky

HSI IDC Ltd, Panchkula

Environmental Clearance for 12MLD new CETP for Bahadurgarh Industrial estate for HSI IDC

Balotra Water Pollution Control & Treatment Trust

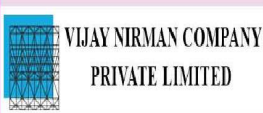
Environmental Clearance for setting up of RO units for 6MLD & 12MLD RO Units for CETP Balotra Textile Industrial area, Balotra, Rajasthan - Obtained approval of the EC for the project

Jaol Water Pollution Control & Treatment Trust

Environmental Clearance for setting up of RO units for 2.5MLD & 4 MLD RO Units for CETP at Jaol.

Vitya Consultants Pvt. Ltd.

Vision into Reality



contact



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