

<b>Assignment Name:</b> Preparation of City Sanitation Plans, Feasibility Study Reports and Detailed Project Reports for Integrated Municipal Solid Waste Management, Comprehensive Wastewater Management, Crematoria and Riverfront Development Projects in 40 Urban Local Bodies of Bihar - Group-2 for 13 Towns (Hajipur, Chhapra, Siwan, Muzaffarpur, Sitamarhi, Bettiah, Motihari, Buxar, Dighwara, Sonapur, Revealganj, Ara, Darbhanga)	<b>Approximate value of the contract (in current Rs):</b> 4.11 Crores
<b>Country:</b> India <b>Location within country:</b> Bihar	<b>Duration of assignment (months):</b> 12
<b>Name of Client:</b> SPUR, Urban Development & Housing Department (UDHD), Govt, of Bihar	<b>Total number of person-months of the assignment:</b> 73
<b>Address:</b> SPUR, Urban Development & Housing Department, Govt. of Bihar, 1 <sup>st</sup> Floor, Vikas Bhawan, Patna- 800 001	<b>Approximate value of the services provided by our firm under the contract (in Rs):</b> 1.42 crores
<b>Start date (month/year):</b> October 2012 <b>Completion date (month/year):</b> Ongoing	<b>Number of professional person-months provided by our firm:</b> 28
<b>Name of joint venture partner or sub-Consultants, if any:</b>	Lahmeyer GKW Consult
<b>Name of senior regular full time employees of the firm involved and functions performed:</b>	Ajay Kumar Singh (Resettlement & Rehabilitation Expert), Durga Prasad Singh (Sewerage Expert), Jay Kant Singh (Procurement Engineer), Kapil Chaudhary (Architect Planner)
<p><b>Narrative description of Project:</b></p> <p>The primary objective of the consultancy is to prepare City Sanitation Plans, undertake feasibility studies, and prepare requisite Detailed Project Reports and Bid Documents for Integrated Municipal Solid Waste Management, Wastewater Management, Riverfront Development, Crematoria, Dhobi Ghats and Community Toilets. This DFID funded project aim to promote sustainable environment and basic urban infrastructure and sanitation facilities to the residents and visitors of the proposed towns and to ensure effective pollution abatement of river Ganga by adopting a river basin approach for comprehensive planning and management, and to maintain minimum ecological flows in the river Ganga with the aim of ensuring water quality and environmentally sustainable development.</p> <p>The City Sanitation Plans, Integrated Municipal Solid Waste Management, Comprehensive Wastewater Management is planned and designed in accordance with CPHEEO Manual on Manual on Municipal Solid Waste Management – May 2000, CPHEEO Manual on Sewerage &amp; Sewage Treatment Plants, Dec-1993, Municipal Solid Waste Management &amp; Handling Rules 2000 and Guidelines for Preparation of Project Reports under National River Conservation Plan and National Ganga River Basin Authority – Dec 2010 provided by Ministry of Environment &amp; Forest, Govt. of India and other prevailing best industry practices to the satisfaction of UDHD.</p> <p>Vision EIS provided Planning &amp; Design Services in order to ensure that quantity &amp; quality of Urban Sanitation in selected ULBs of Bihar towns is assessed properly and suitable recommendations are given. It is proposed to obtain financial assistance under different schemes of GOI (like NGRBA, JNNURM-2) or other External Funding, if available. Govt. of Bihar may also provide part financial assistance through State Plan for implementation of proposed projects.</p>	

**Description of actual services provided in the assignment:**

- Undertake a detailed survey of the project towns to identify critical areas and issues including topographical survey.
- Assessment of existing service levels across different infrastructure sectors and detailed institutional arrangements in the ULBs.
- Survey in detail the specific conditions in the slums in terms of open defecation specifically for women, availability of toilets, facilities for solid waste management, drainage and sewerage.
- Comprehensive socio-economic survey in 2000 slum households covering all 13 towns.
- Finding out gaps in terms of service delivery and ULB's capacity (institutional & human resource) resulting in ineffective operation & maintenance.
- Carrying out needs assessment exercise to address urban sanitation issue in a comprehensive manner.
- Proposing required interventions for infrastructure up gradation along with comprehensive action plan for capacity enhancement of ULB to bring immediate improvement in the system performance & ensure effective service delivery.
- Suggesting specific ways of improving the sanitation situation in the slums and integrating facilities and services with a city wide network; include a slum specific operation and maintenance plan in the Action Plan.
- Conducting stakeholder consultation meetings in all ULBs to understand the local needs and requirements.
- Prepare Detailed Project Report for Integrated Municipal Solid Waste Management (SWM) conforming to the guidelines given in the CPHEEO's Manual on Municipal Solid Waste Management – May 2000 and Municipal Solid Waste Management & Handling Rules 2000.
- Detailed design & drawings of the proposed Solid Waste Management System including sanitary landfill / waste processing plants including compost plant.
- Work out techno-economic viability of Regional Approach for Disposal of Municipal Solid Waste by setting-up of common Regional Sanitary Landfill Site (facility) which may cover number of ULBs within proximity of major ULB.
- Preparation of DPRs for Sewerage & Sewage Treatment Plant Projects as per guidelines given in the CPHEEO's Manual of Sewerage and Sewage Treatment – 1993, issued by Ministry of Urban Development, Govt. of India.
- Design of sewer network using the Computer Software, Sewer GEMS.
- Preparing City map, Contour map, Index map, key plan, schematic diagrams, sewer network drawings, sewage treatment plant units' drawings.
- Confirm land acquisition requirements and assess each site's environmental aspects for detailed design of the project components.
- Operation and maintenance mechanism for the proposed projects with budgeting and required organizational framework.
- Detailed engineering design, drawing, specifications, estimation etc.