

HALCROW CONSULTING INDIA PRIVATE LIMITED

Water and Sanitation

Introduction

Halcrow works for governments, public sector authorities, utilities, industrial and commercial companies, financial institutions, banks, developers and private individuals. The breadth of our skills, experience and deployment means that we can contribute to the widest range of projects; from small scale to large multi-disciplinary assignments. Halcrow works in partnership with clients to understand their exact requirements. We deliver solutions that meet our clients' needs, are technically, socially and environmentally appropriate and are completed in a timely and cost-effective manner.

Close attention to the needs of the client, and an appreciation of time and cost constraints, ensures an efficient and cost-effective service.

Halcrow regularly provides consultancy services to government departments, public sector authorities and utilities, industrial and commercial companies, international funding agencies, financial institutions and private individuals.

Halcrow Water Services (HWS), a 100% wholly owned company of Halcrow Group Ltd, has been set up as a centre of knowledge, capability and experience in design, management and operations of water infrastructure and has ready access to management, operations and services. HWS operates in two divisions, Consultancy and Operations. Within the staff there is substantial water engineering experience gained in many fields both in the UK and overseas including utilities, contracting and consultancy. This can be complemented with staff from the joint venture partners.

Water and Sanitation for the Urban Poor (WSUP) Committed to making a significant contribution towards achieving the MDGs for water and sanitation, WSUP is an innovative partnership between the private, public and civil society sectors to provide more effective delivery of water supply and basic sanitation services.

WSUP was first established on 1 September 2004 via a MoU and then formally incorporated in the UK on 9 April 2005 as a not-for-profit company limited by guarantee. Its membership is made up of three businesses, four international Non Government Organisations (NGOs), and one academic institution. WSUP is also fortunate to have the United Nations Development Programme (UNDP) and the International Water Association (IWA) as observer members.

Partners for Water and Sanitation, to which Halcrow is a member, works with developing countries providing unrivalled knowledge and expertise to help them supply clean water and adequate sanitation to their population.

An innovative not-for-profit initiative, the partnership has members from three sectors: government departments, private enterprises ranging from water companies to engineering groups, and NGOs such as Wateraid, Tearfund and a trade union group. This allows the partnership to draw from the widest possible range of expertise to rapidly respond to each unique challenge and to help local African partners develop and strengthen capacity and build truly sustainable solutions.

Services

Halcrow provides a full range of engineering, planning and environmental consultancy services for the development, operation and maintenance of water and sanitation projects. These services include:

- Water resources conservation and protection
- Water quality studies and water treatment
- Water pumping status
- Transfer mains and aqueducts
- Distribution networks
- Water demand management
- Liquid and solid waste management
- Sewage treatment
- Sewerage analysis, design and rehabilitation
- Utility restructuring, independent validation and asset management planning
- Public private partnership
- Project management and construction supervision
- Instrumentation, control and automation/SCADA
- Capacity building and Training



Feasibility Study for Common Effluent Treatment Plant and Hazardous Waste Management Facility for Adityapur Industrial Area - Jharkhand

The objectives of the consulting services are to provide a feasibility study for setting up of a common effluent treatment plant (CETP) for industrial effluent and domestic sewage and hazardous waste management scheme for the industries located in Adityapur Industrial Area, on an environmentally sound and sustainable manner with private sector participation.

This project will be an important stepping-stone towards the following principal benefits:

- Reduce present reliance on on-site treatment facilities (e.g. septic tanks which serve only as equivalent of primary treatment at best and are poorly maintained leading to seepage, smells and possible contamination of ground aquifers)
- Reduced flooding
- Reduced pollution from industries
- Effluent reuse, to minimise use of potable water (if feasible)
- Procuring finance
- A professional feasible plan that identifies future investment in the wastewater & hazardous waste management sector

Rapid Distribution System Assessment for Continuous Water Supply (24/7 Water Supply for Delhi)

The objective of this study was to demonstrate to State and City authorities, administrators, water service suppliers and politicians that conversion from intermittent to continuous water supplies is achievable, and illustrate the strategy to this end.

Delhi is a mega city of 14 million population which operates an intermittent water supply regime. Halcrow Water Services has investigated various strategies for remediation of the water supply system to provide continuous supplies. It has carried out strategic analysis of the Delhi transmission system looking at the system input volume and the carrying capacity for the transmission system and identifying whether further rationalisation would be required. Also investigated the possibilities of utilising the existing over head tanks and/or underground tanks and booster stations to enable the provision of a continuous supply.

The overall strategy noted that continuous water supply in Delhi was feasible, and outlined the road map to progress the project.

Client: The World Bank



Water Distribution Assessment and Supply strategies in Indore, Nashik and Ramagundam towns, India - Use of BABE software – The World Bank

Detailed Investigation for identification of new Ayacut of about 4.50 lakh acres

Halcrow was involved in designs, drawings, preparation of estimate and DPR for the Sri Pada Rao Project in Andhra Pradesh, India. . Stage 1 of the project involves construction of a barrage across the river and pumping of 6.50 TMC of water to NTPC, Ramagundam, while Stage 2 of the project involves pumping of 49.5 TMC of water to provide irrigation facilities for new ayacut of 4.50 lakh acres in upland areas of Karimnagar, Nalgonda, Medak, and Warangal districts of Andhra Pradesh.

Madhya Pradesh Integrated Water Resources Project

At the State level, formulation of Integrated Water Sector Profiles, Institutional Options Assessment, and Sectoral Investment Strategy, culminating in an Integrated Water Resources Management (IWRM) Strategy and Action Plan. The IWRM strategy was developed through the preparation of an integrated water sector profile for the state and a representative river basin.

National Hydrology Project

Halcrow's role in this project was to advise southern Indian states on the management of hydrological networks, preparation of hydrological survey software and capacity building/training of hydrological staff from the concern departments.