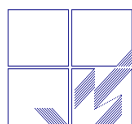


Profile

Irrigation



JPS Associates (P) Ltd.
New Delhi



ABOUT JPS ASSOCIATES

JPS Associates is a consulting firm specializing in management, development, agriculture & natural resources management, and engineering. The company was founded in 1987 and incorporated as private limited company in 1995. JPS has amassed a reputation for improving and enhancing performance excellence of some of the most reputed clients and has been working in development projects directly with and funded by international and bi-lateral development agencies like the World Bank, Asian Development Bank (ADB), United Nations Development Programme (UNDP), United Nations Environment Programme (UNEP), International Labour Organisation (ILO), Global Environment Facility (GEF), European Union (EU), United States Agency for International Development (USAID), Department for International Development (DFID), Japan Bank for International Cooperation (JBIC), Japan International Cooperation Agency (JICA), French Development Agency (Agence Française de Développement- AFD), Canadian International Development Agency (CIDA), Australian Agency for International Development (AusAID), Kreditanstalt für Wiederaufbau (KfW), Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH and Norwegian Agency for Development Cooperation (NORAD). Our government clients include national institutions, central government, state government, local government and parastatals such as public sector undertakings and public sector banks.

We are a team with diverse range of expertise and experience. The Head Office in New Delhi is the driving force behind the Company activities, centralising the management specialists and design staff and providing overall direction and supervision to the on-going projects. We also have an extensive network of retained experts, who add strength to our team in sharing commitment to deliver exceptional results for our clients.

We leverage our more than 30 years of experience, deep knowledge of processes, insights, and best practices internalised through implementing about 1000 projects. These are supported by strong IT/technology, reengineering, analytics and global delivery capabilities to deliver a comprehensive client solution. From strategy through implementation, our hands-on approach has achieved success in delivering quantifiable and value-driven results. Our partnership with our clients ensures a lasting effect which is ultimately their asset and knowledge. Our reputation for being leaders in specialised fields of central and local government has built us a solid clientele in our home base India, and a reach into the international arena.

JPS is an ISO 9001: 2015 certified company. We pursue our quality policy and all business units integrate the policy and further strengthened by quality surveillance and project monitoring team.



FIELDS OF SPECIALIZATION

Management

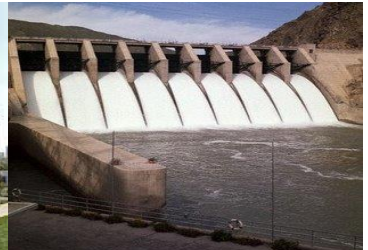
- Governance, Public Services and Policy
- Monitoring and Evaluation
- Information Management & E-Governance

Development

- Social Development & Surveys
- Public Health
- Urban Development Planning
- Regional and Rural Development Planning
- Tourism
- Natural Resource Management
- Agriculture and Agri-Business

Engineering

- Water & Environment Engineering
- Transportation
- General Engineering





RANGE OF SERVICES:

JPS provides specialist sector specific services which are presented under each business units. The general services include the following:

- Policy
- Project Planning and Preparation
- Program Management Consultancy Services
- Master Planning & Conceptual Designs
- Field Surveys & Investigations
- Pre-Feasibilities and Feasibilities Studies
- Detailed Designs/ Detailed Project Reports
- Financial Management & Accounting Services
- Project/Program Monitoring & Evaluation
- Human Resources Planning
- Manpower Analysis
- Business Planning
- Information Management Services/ Management Information System (MIS)
- Environmental Impact Assessment And Management
- Socio-Economic Studies & Social Impact Assessment
- Community Development
- Resettlement & Rehabilitation
- Livelihoods and Sustainable Development
- Efficiency Improvement/ Cost Reduction Study/ Profitability Improvement Studies
- Tender Documentation
- Concession Agreements
- Bid Processing
- Procurement Assistance
- Owner's Engineers and Independent Engineers Services
- Project Management / Construction Supervision
- Third Party Quality Control/ Quality Assurance
- Impact Assessment Studies



Agriculture Services

- Plant/crop Protection
- Plantation & Horticulture
- Organic Farming
- Water Harvesting and Watershed Management
- Farming System and Farm Management
- Irrigation Management
- Ground Water Management
- Agribusiness
- Agricultural Financing, Marketing and Resource Management
- Agroforestry
- Wasteland Development
- Farm Mechanisation
- Dairy & Animal Husbandry
- Post Harvest Technology
- Rural Industrialisation
- Micro Finance
- Institutional Strengthening and Capacity Building



Location: Uttar Pradesh, India

Client: UP Irrigation & Water Resource Department (UPIWRD) Government of Uttar Pradesh

Funding Agency: World Bank

Period: June, 2019 - 31st March, 2021

Associate Firm: Nil

RELEVANT EXPERIENCE

Consultancy Services for Planning Community Outreach and Enhancing Community Participation for Flood Management in Targeted Areas of Rapti River Basin (Credit No.5298-IN) under Uttar Pradesh Water Sector Restructuring Project (UPWSRP) Phase II of U P Irrigation & Water Resources Department, Government of Uttar Pradesh

Brief Description of Project:

In the State of Uttar Pradesh, annually recurring floods in the Ganga, Yamuna, Ramganga, Gomati, Sharda, Ghagra, Rapti and Gandak rivers inundate about 2.7 million hectares, adversely impact more than 21.1 million people and cause INR 4.3 billion per annum as damages. More than 30% of the total geographical area of the state is flood prone including 23 districts in the eastern, western and central regions. Recurrent floods are devastating to the state economy and undermine poverty alleviation efforts. Floods affect lives, livelihoods, productivity and the security of existing investments, as well as acting as a disincentive for future investments.

The Government of India (GOI)/ Government of Uttar Pradesh (GoUP) has received a credit from the International Development Association (IDA) to finance the UP Water Sector Restructuring Project (UPWSRP) Phase-2 and JPS has been contracted for providing consultancy services for Planning Community Outreach and Participation in Emergency Flood Management in Rapti River Basin in Uttar Pradesh State.

Objectives:

Part-A:

- To review national and international experience on community involvement in embankment surveillance and protection.
- To recommend the appropriate strategic approach in organizing community participation, taking note of the community's needs, capacity and practicable implementation, in order to send localized embankment and river status reports to UPIWRD's Embankment Asset Management System (EAMS). The Strategic approach needs to address the participatory process, resources maximization and motivation.
- Pilot Implementation in select field divisions and submit report for basin-wide implementation.

Part-B:

- To review national and international experience on community participation in emergency flood response.
- To recommend the most appropriate community outreach program for dissemination of the flood alert from the UPIWRD's FFMIS, taking note of status of community- level contingency action plans of the Disaster Management Department, community's needs, capacity and practicable implementation.
- Pilot Implementation in select field divisions and submit report for basin-wide implementation.

Services Provided:

Part A of the consultancy assignment covers communities adjacent to the embankments which are immediately impacted by any embankment breach or cut, that would need to be involved in surveillance of vulnerability or failure to take emergency action for strengthening. Community participation would include reporting on embankment vulnerability based on routine visual



observations of embankment condition and river course changes during flood season and specifically in response to embankment alerts from EAMS on specific reaches. In Part B, communities in the flood prone area need to have timely access to flood forecasts for better preparedness at the community level. For both parts (to be executed concurrently), the area coverage would be the main stem of Rapti River and four major flood causing tributaries (covered under the flood forecasting and inundation mapping consultancy).

- JPS is envisaged to interact with select communities on sample basis (making sure that the sample represents the varying degree and nature of flood hazard and vulnerability in the respective areas. The sample design will be based on sound statistical principles. JPS, as part of sample survey, is expected to also interact with concerned field divisions in the area for suggestions on how the community outreach for emergency flood management or inputs on embankment vulnerability can effectively supplement field staff inspection;
- JPS is to evaluate community participation modes for emergency flood preparedness or report on embankment vulnerability and recommend how the existing Panchayati Raj or other community institutions would be involved;
- Community outreach would include design of flood alerts from the flood model customized for community action, contingency planning and emergency management at community level; embankment surveillance and issue-reporting to supplement UPIWRD field offices; and targeted embankment and river surveillance based on predicted morphological changes from river morphological trend model;
- Review national and international experience to support the development of community participation mechanism. JPS is to also interact with the stakeholders to augment the findings and recommendations;
- Suggest types of embankment information to be transmitted by the communities in real-time and on need basis (as requested by the Irrigation Department) for integration in EAMS. The embankment information may include visual observation of river flow close to embankment, dramatic changes in river alignment, damage to river training works and embankment structures, wave action damaging the river-side slope of the embankment, seepage of water through embankment, rat holes, rapidly rising river water level, miscreants trying to cut the embankment, etc. In case of embankment failure they will report about the status of breach such as location, time, and approximate length. JPS is to take note of the means of community participation, the communication infrastructure at the community level, functional status and efficiency and community skill sets. JPS is expected to recommend whether the existing communication means will be utilized or new infrastructure will be needed;
- Recommend information flow to different identified recipients including EAMS, Irrigation Department Offices during normal and emergency situations;
- Develop community feedback mechanism by which the community can be kept informed about the action being taken by the department based on and after their reporting;
- Design flood alerts for effective use by the community, taking note of flood hazard, capacity and current status of community response;
- Evaluate typical communication infrastructure at the community level, functional status and efficiency, and community skill sets. JPS is to recommend how the existing communication means will be utilized and recommend additional capacity building that will be needed;
- Develop plan, approach, protocol and mechanism for community



Location: Panchkula,
Haryana

Client: Administrator
Command Area
Development Authority

Funding Agency:
Administrator Command
Area Development
Authority

Period: 14th October,
2014 – 2017

Associate Firm: Nil

participation in embankment surveillance, pilot in select communities in the basin, and prepare plan for basin-wide implementation;

- Broadly assess the financial implications of community participation and recommend the appropriate mix of voluntary and funded participation;
- Develop the Action Plan for implementation in the whole basin and also a plan for piloting it in a selected portion (say, one Irrigation Department Division) in Rapti River Basin.

Concurrent Evaluation Study of Bhakra Canal Command Phase-II, Western Jamuna Canal Command Phase-VI and Jawahar Lal Nehru Canal Command Phase-II Projects of CADA, Haryana

Brief Description of Project:

Command Area Development Authority was setup in Haryana in the year 1974 under a Centrally Sponsored Scheme. The main objective of CADA is to bridge the gap between the irrigation potential created and that utilized, through micro-level infrastructure development and effective farm water management, to enhance agricultural production and productivity and to improve socio-economic condition of farmers. Presently, following projects are ongoing through CADA Haryana:

1. Bhakra Canal Command Phase-II covering districts of Hisar, Sirsa, Fatehabad, Ambala, Kurukshetra, Kaithal, Karnal & Jind;
2. Western Jamuna Canal Command Phase-VI covering districts of Hisar, Gurgaon, Panipat, Rohtak, Sonapat, Jhajjar, Bhiwani & Jind;and
3. Jawahar Lal Nehru Canal Command Phase-II covering districts of Jhajjar, Rewari, Mahendergarh, Bhiwani & Gurgaon.

Through this assignment, CADA Haryana contracted JPS to conduct concurrent evaluation of above ongoing projects. The assignment includes evaluation of ongoing projects which together cover an area of about 272,271 ha within three CAD Circles and twelve CAD Divisions.

Services Provided:

- a. Overall Planning & Execution
 - i. Credible construction plan to complete the project within stipulated period as per MOU;
 - ii. The positions of tenders and award of work vis-à-vis credible construction plan;
 - iii. The budgetary provisions commensurate to item (i) and (ii) and situation of flow of funds for carrying out above activities; and
 - iv. Whether works have been carried out as per approved DPR, deviation being made, status of seeking approval.
- b. Organizational Setup
 - i. Adequacy of organizational setup vis-à-vis the physical & financial planning;
 - ii. Administrative machinery required as per sanctioned strength vis-à-vis filled up post with the project organization; and
 - iii. Monitoring mechanism available to resolve: inter departmental issues, intra-departmental inter-ministerial issues.
- c. Contractual mechanism (Arrangement)
 - i. Whether the action for award of contract commensurate with credible construction/work plan; and
 - ii. Does the progress of work during the year was an envisaged in contract document i.e., start of work, completion time supply of materials, quality checks, release of payment to contractors to achieve the milestones as per



PERT/CPM planning.

- d. Quality aspects
 - i. Whether the independent quality control mechanism exists in the setup and its adequacy; and
 - ii. The quality checks being carried out in general as prescribed by BIS.
- e. Bottlenecks
 - i. Planning & technical issues;
 - ii. Flow of funds from State Government to project authorities;
 - iii. Contractual arrangement (award of works aspect);
 - iv. Inter Department/Ministerial issues;
 - v. Litigation, court cases & pendency claims and their impact on overall project execution;
 - vi. Land acquisition; and
 - vii. Adequacy of establishment, workforce, Plant & Machinery & scarce material.
- f. Overall assessment

A comprehensive review on the overall assessment for the implementation of project, with suggestions/recommendations there upon to complete the project in balance period of MOU.

ADB TA 4573-IND Water Users Association Empowerment for Improved Irrigation Management in Chhattisgarh Project for Water Resources Department, Government of Chhattisgarh

Brief Description of Project:

The purpose of the seven-year Technical Assistance project was to help develop (i) an enabling framework and capacity for effective WUAs that will be able to assume responsibility for irrigation system management and operation and maintenance (O&M), and (ii) farmer capacity for diversified and rabi (dry season) cropping. An additional goal was to integrate monitoring and evaluation (M&E) into project activities with broad stakeholder involvement. The TA was envisaged to result in the following: (i) creation of a WUA Capacity Development Program that will provide core training for WUAs throughout Chhattisgarh; (ii) a Training of Trainers (ToT) program to develop the skills of project contracted staff and Water Resources Department (WRD) staff who will train WUAs in the field; (iii) development and refinement of the process for WUA participatory rehabilitation and upgrading of irrigation systems under the ADB project including needs assessment, design, construction supervision; (iv) support to develop a comprehensive institutional framework for participatory irrigation management (PIM) and WUAs in Chhattisgarh, including a revised PIM Act, a standardized contract outlining management responsibilities for WRD and WUAs, and development of bylaws that specify responsibilities of WUAs and their members; (v) a capacity development program to assist WUAs and farmers with improved farm practices for rabi and diversified cropping based on market requirement and pricing; and (vi) development of an M&E program that addresses livelihood impacts and includes WUA participation.

Services Provided:

Phase 1 – Revision of the PIM Act

- A PIM Act already exists as a legacy from the reform process undertaken in Madhya Pradesh in 1999; WUAs were established and their rules and regulations defined. The Project was to provide assistance to strengthen the institutional and policy framework and including a revised PIM Act. The review envisaged was to make the existing Act more effective and relevant to the situation in Chhattisgarh.

Location: Chhattisgarh

Client: Water Resources Department, Government of Chhattisgarh/ADB

Funding Agency: Asian Development Bank

Period: 2005-2012

Associate Firm: Kellogg Brown & Root PTY LTD, Australia



Phase 2 – Capacity Building for WUA Empowerment

- WUA Mobilization: The TA consultants, with support of the Project consultants and WRD, contracted an NGO to execute WUA mobilization and an awareness campaign to inform WUAs about revised PIM policies, basic WUA organization, and the coming elections as a means to initiate the WUA development process.
- CIDP - WUA Capacity Development and Support: TA consultants trained WRD staff for the PIM Unit to be developed under the project and provided capacity development to ensure WUAs manage irrigation systems effectively, develop rabi and diversified cropping based on market requirement and pricing, and provide sustainable O&M after Project R&U.

In summary, the activities of JPS included: (i) development of WUA Capacity Development Program (WUACDP) that will provide core training for WUAs throughout Chhattisgarh; (ii) a training of trainers program to develop the skills of NGO members and WRD staff who will be involved in delivering training to WUAs in the field; (iii) development and refinement of the process to be used for WUA participatory rehabilitation and upgrading of irrigation systems under the ADB project; (iv) support to develop a comprehensive institutional framework for PIM and WUAs in Chhattisgarh including a revised PIM Act; a contract process outlining management responsibilities between WRD and WUAs; and development of by-laws that specify responsibilities between WUAs and their members; (v) a capacity development program to assist WUAs and farmers with improved farm practices; and (vi) development of a monitoring and evaluation program that will be institutionalized into WRD activities.

Location: Madhya Pradesh

Client: Project Implementation Coordination Unit, MPWSRP, Water Resources Department, Govt. of Madhya Pradesh

Funding Agency: Project Implementation Coordination Unit, MPWSRP, Water Resources Department, Govt. of Madhya Pradesh

Period: 2009 -2011

Associate Firm: DHV India

Institutional Strengthening of Madhya Pradesh Water Sector Restructuring Project (MPWSRP) for Water Resources Department, Government of Madhya Pradesh

Brief Description of Project:

The Madhya Pradesh Water Sector Restructuring Project was aimed at improving the productivity of water in selected basins of the state. The project goal was to improve the overall management of water resources as well as for irrigation service delivery through a combination of institutional strengthening and substantial investments in modernizing about 650 minor, medium and major irrigation schemes covering an area of about 620,000 ha in the five focus basins (Chambal, Betwa, Sindh, Ken and Tons). The objective of the captioned assignment was to envisage a comprehensive program of reforms in management of state's water resources in general and irrigation and drainage in particular. Strategies envisaged to be adopted to achieve the objectives of the Project were as follows:

- To increase productivity of water through effective allocation of water resources amongst sectors by integrated and environmentally sustainable river basin planning, development and management processes including conjunctive use of surface and groundwater resources;
- To achieve efficient, financially sustainable, knowledge based and technically appropriate irrigation and drainage operation through:
 - Enabling institutional, policy and legislative reforms;
 - Use of computer systems to strengthen and improve decision making and enable efficient use of available resources;



- Sustainable user participation;
- Modernized irrigation and drainage infrastructure; and

- To improve the living standards of rural poor through enhanced agriculture productivity from intensification and diversification; sustainable management of wetlands and other water based eco-systems.

Services Provided:

JPS was involved in formulating an implementable Human Resources Development Strategy that addressed the following, amongst others:

- Policies relating to recruitment, promotions and transfers of personnel;
- Manpower and career planning, maintenance of personnel records, pay fixation, promotions, transfers;
- Developing and implementing appropriate performance appraisal system;
- Development of incentive programs for employee motivation;
- Developing and implementing a grievance redressal system;
- Interfacing with unions and other staff related bodies;
- Initiating disciplinary proceedings, punishments and rewards, with appropriate follow-up action;
- All administrative matters related to personnel;
- Assessment of database management requirements of the restructured WRD and preparing an implementation plan for computerization of MIS;
- Assessment of the impact of IT infrastructure and Information Management System (IMS), Geographical Information System (GIS) and computerization in all spheres like planning, design and construction of irrigation infrastructure, administrative management, financial management and technical management;
- Providing process improvement suggestions in the context of new vision and modern tools and technology, need for cost-effectiveness and transparency, involving IT-enabling processes for monitoring and learning;
- Change management activities through structured stakeholder consultations, envisioning goals /objectives, mission, etc. for making MP Water Resources Department (MPWRD) a flexible, learning, forward-looking and effective irrigation service delivery organization in the context of changing realities and trends and formulate performance indicators and monitoring strategy in respect of change management; and
- Preparation of a change management strategy and road map for movement of the WRD from its current role to a department focusing on service delivery promoting public private partnerships. The transitional process and change management strategy embodied the detailed proposals for workshops, seminars and public consultations, etc.

Location: Punjab and Rajasthan

Client: Ministry of Statistics and Programme Implementation, Government of India

Funding Agency: Ministry of Statistics and Programme Implementation, Government of India

Period: Feb. 2005-Sept. 2005

Associate Firm: Nil

Study of Accelerated Irrigation Benefit Programme (AIBP) for Infrastructure and Project Monitoring Division, Ministry of Statistics and Programme Implementation, Government of India

Brief Description of Project:

The Government of India launched the Accelerated Irrigation Benefits Programme (AIBP) during 1996-97 to provide Central Loan Assistance (CLA) to major and medium irrigation projects in the country with the objective to accelerate the completion of on-going irrigation/multi-purpose projects on which substantial progress has been made but are beyond the resource capability of the State Governments to complete and other major and medium irrigation projects which are in the advanced stage of completion and could yield irrigation benefits in the next four agricultural seasons. The objective of the study was to study the impact of the AIBP and to ensure effective implementation of the AIBP Scheme and develop a system of monitoring to actively analyze the desired benefits envisaged through the Scheme upto September, 2004.



Services Provided:

- Collect necessary information about project identified in the zone so as to complete the data base of these projects;
- Analyze the implementation of projects in the identified zone with respect to the envisaged benefits;
- Analyze the economic and social impact of AIBP Scheme in States in the identified zone;
- Identify all possible constraints in the implementation of the projects under AIBP and suggest remedies;
- Analyze the process of identifications of projects and their funding under the AIBP Scheme; and
- Study the existing monitoring mechanism of Central Water Commission & Ministry of Statistics and Programme Implementation and suggest a possible adaptable system

Need Assessment Study for Tripura Agriculture Development Project for Department of Agriculture, Government of Tripura

Brief Description of Project:

The objective of the consultancy assignment was to identify underlying issues and constraints in the sector, using a combination of primary and secondary data, and propose a project design that would respond to actual needs and demands of key stakeholders. The study was also to identify key policy and institutional reforms needed to address existing constraints and opportunities and create an enabling environment for accelerated agricultural growth in the state.

Services Provided:

- Identifying key constraints in growth of agricultural products and markets;
- Identifying needs priorities, investment demands of village communities;
- Identifying areas of agricultural opportunity;
- Independent assessment of impact of the uncertain security situation in the state on agricultural development and delivery of government services in rural areas; and
- Developing policy and institutional reforms needed to accelerate agricultural development, marketability of products and increase private investment in the sector

Kerala Community Irrigation Project

Brief Description of Project:

Establishment of farmers organizations for designing and implementing irrigation schemes in Kerala.

Services Provided:

- Study of existing water management practices in the state;
- Designing Model Terms of Association and Bye-laws for the Water Users Association;
- Identification of resources gap and preparation of communities for taking over management responsibility;
- Selection and Training of Community Officers, facilitating the creation of community

Location: Tripura

Client: Directorate of Planning & Coordination, Tripura Agriculture Development Project, Government of Tripura

Funding Agency: World Bank

Period: 2003 – 2004

Associate Firm: Nil

Location: Kerala

Client: Ministry of Foreign Affairs, The Royal Netherlands Government

Funding Agency: Ministry of Foreign Affairs, The Royal Netherlands Government

Period: 1993-1999

Associate Firm:

Euroconsult The Netherlands, BKH Consulting Engineers



Location: Karnataka

Client: The Royal Netherlands Government

Funding Agency: The Royal Netherlands Government

Period: 1995-1998

Associate Firm: DHV Consultants, The Netherlands

Location: India

Client: Ministry of Agriculture, Government of India

Funding Agency: Ministry of Agriculture, Government of India

Period: January, 1995 - March 1995

Associate Firm: Nil

Location: India

Client: Ministry of Agriculture, Government of India

Funding Agency: Ministry of Agriculture, Government of India

Period: January, 1995- March 1995

Associate Firm: Nil

organization; and

- Conception, design and implementation of a monitoring and evaluation system

Tungabhadra Irrigation Pilot Project (TIPP-II)

Brief Description of Project:

The development objective of the project was to contribute to the standard of living of the farmers in the Tungabhadra command area by improving management of land and water.

Services Provided:

- Provision of management and coordination support for project implementation;
- Development of project implementation plans through stakeholder participation;
- Monitoring of project activities;
- Evaluation of project impact; and
- Development in a management information system for monitoring the project.

Evaluation of the Irrigation Scenario in East Zone of the Country

Brief Description of Project:

Evaluation of present scenario of irrigation development in East zone of India. Extent to which the traditional irrigation systems have been replaced by canal/ shallow tubewell was also evaluated.

Services Provided:

- Impact assessment of project interventions;
- A detailed evaluation of the present scenario of irrigation.
- Creation of an extensive database for the first time on the facts and figure available in the irrigation sector; and
- Recommendations to increase the irrigated area.

Evaluation of the Irrigation Scenario in North Zone of the Country

Brief Description of Project:

Evaluation of present scenario of irrigation development in North zone of India. Extent to which the traditional irrigation systems have been replaced by canal/ shallow tubewell was also evaluated.

Services Provided:

- Impact assessment of project interventions;
- A detailed evaluation of the present scenario of irrigation.
- Creation of an extensive database for the first time on the facts and figure available in the irrigation sector; and
- Recommendations to increase the irrigated area



Location: India

Client: Ministry of Agriculture, Government of India

Funding Agency: Ministry of Agriculture, Government of India

Period: January, 1995 - March 1995

Associate Firm: Nil

Location: India

Client: Ministry of Agriculture, Government of India

Funding Agency: Ministry of Agriculture, Government of India

Period: January, 1995 - March 1995

Associate Firm: Nil

Evaluation of the Irrigation Scenario in South Zone of the Country

Brief Description of Project:

Evaluation of present scenario of irrigation development in North zone of India. Extent to which the traditional irrigation systems have been replaced by canal/ shallow tubewell was also evaluated.

Services Provided:

- Impact assessment of project interventions
- A detailed evaluation was made of the present scenario of irrigation. An extensive database was created for the first time on the facts and figure available in the irrigation sector.
- Recommendations were made to increase the irrigated area.

Evaluation of the Irrigation Scenario in West Zone of the Country

Brief Description of Project:

Evaluation of present scenario of irrigation development in North zone of India. Extent to which the traditional irrigation systems have been replaced by canal/ shallow tubewell was also evaluated.

Services Provided:

- Impact assessment of project interventions;
- A detailed evaluation of the present scenario of irrigation.
- Creation of an extensive database for the first time on the facts and figure available in the irrigation sector; and
- Recommendations to increase the irrigated area.



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