



## Need to address salinity

Salinity exacts many economic and environmental costs. These include reduction in agricultural productivity, acute crises of potable drinking water in villages, less water for irrigation and industrial use, distress migration, decline in cattle population and loss of biodiversity in both, terrestrial and aquatic systems. Prolonged use of saline water for irrigation has led to a decline in agricultural productivity and decreased soil fertility. This has rendered the land unsuitable for future cultivation. Due to human interventions that have disturbed the natural ecosystems, salinity has taken a distantive shape.

#### Focus areas

### Water Resource Developmen

Water Resource Development proves to be an alternative solution to salinity management as it helps in water harvesting and recharging. CSPC has helped evolve low cost community-based solutions of water harvesting and recharging including construction of check dams, farm ponds, well ceiling, farm bunds, well renovation, percolation well and tanks, bore well recharge, check dam repairing and deepening, pond deepening and repairing and so on.

#### Agriculture

It is imperative to offer alternate solutions to declining agriculture in the coastal belt than to explore new means of livelihood. Agriculture and horticulture interventions like promotion of salinity tolerant crops, horticulture crops, demonstration of vegetable plots, less water intensive crops have been taken up by CSPC. This has resulted in promoting sustainable farming practices with a focus on salinity management.

### **Drinking water and sanitation**

Consumption of contaminated drinking water, improper disposal of solid and liquid waste and lack of personal hygiene has been the major causes of diseases in rural areas. This needs to be addressed collectively through a well designed strategy. Hence, new solutions, technological as well as institutional, are important for solving the problems in a sustainable, socially acceptable as well as cost-effective manner. CSPC has taken up initiatives of enhanced community-based decentralized water storage and supply systems, identification of local intervention for enhancing alternative ground water resources, exploring possibilities of piloting non-conventional sources of energy for powering water supply systems and improved sanitation measures at the individual as well as village level.

### Non farm-based livelihoods

Fishing is a traditional occupation of those living along the coastline. Many of the fishermen have vast experience in fish farming, but they lack the essentials of technical know-how and the scientific basis of fish culture. Thus, it is imperative for them to know about the basic principles of fish farming/aquaculture. Fishing and related activities not only provide livelihood to fisher folks but also to others in the fishing industry, including boat builders, trap and net makers, packers, distributors and retailers. Hence, it is important for the social, cultural, economic and political stability in the coastal areas.

#### **Key functions**

# Being a knowledge bank on coastal salinity issues

As a knowledge centre on salinity, it is essential to develop a detailed database; new research ideas and innovative concepts for field-level piloting; gather and document various processes and learnings generated from ongoing field projects; compile research studies and other resource material. To focus on the issue more seriously, adopt an integrated approach and find appropriate solution; working as knowledge bank on issues related to salinity forms the core function of CSPC.

# Networking and developing linkages with government and other agencies

To tackle the salinity issue with a holistic approach, the collective efforts of the government, civil society organisations and experts need to be simultaneously pooled in at macro as well as micro levels. These efforts should then lead to the formulation of an appropriate policy for salinity control and prevention, at the state and national levels. CSPC plays a pivotal role in developing a network with civil society organizations, the government, experts and the community; ensuring that they all work in the same direction.

# Piloting area-specific innovations and community approaches for addressing salinity related issues

CSPC along with its local partners has ideated area-specific pilots to strengthen and sustain the livelihoods of coastal communities. Unique community approaches are adopted for better involvement, implementation and sustainability. As community forms the nucleus of any development action, their participation and sustenance is ensured in all the initiatives promoted and supported by CSPC.

# Operating as the nodal agency for Kharash Vistarotthan Yojana (KVY)

CSPC operates as the nodal agency for the KVY programme. The partners across coastal districts implement various area-specific activities on water and land resource development, drinking water security, agriculture development and non-farm based interventions. CSPC coordinates, provides technical support and monitors the quality of implementation of the projects. To ensure quality implementation, CSPC collaborates with external resource persons and technical research institutions. CSPC develops synergies between various initiatives of government and non-government agencies while networking and coordinating the efforts of the various partner organisations.

