



KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

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PROFILE

Karnataka State Council for Science and Technology (KSCST) an autonomous S&T organization under Department of Science & Technology, Government of Karnataka established in the year 1975 is one of the first State S&T Councils to be set up in the country. During the last 45 years of its existence, KSCST has been pro-actively engaging itself to identify, propose and implement S&T based solutions to locale specific needs / problems in the broad areas of Water, Education, Geospatial Technologies, Housing, Energy, Digital Heritage, Health and E-governance. In association with the Indian Institute of Science and several other premier R&D institutions, KSCST has been executing many projects and programmes aimed at improving socio-economic conditions of the people of the state.

Over the years, a number of technologies have been translated, from research and demonstration phase to the implementation and operational phase. KSCST provides support to the State Government in formulation of S&T based policies and to both Central and State Governments in scientific surveys, project implementation, evaluation, co-ordination & monitoring, organization of scientific meets and awareness campaigns.

VISION: Application of Science & Technology for the management of resources, improvement of environment, quality of life and socio-economic conditions of the people of Karnataka.

MISSION: Co-ordinate R & D activities for generation of knowledge for scientifically based interventions, development and popularization of appropriate technologies for adaptation by the civil society to overcome local-specific problems and, inspire and improve human resources of the S&T sector in the state.

MAJOR PROGRAMMES

- **Natural Resources Data Management System (NRDMS)** - A Repository of Natural Resources and Socio-economic database to support local level developmental planning. Generated detailed geospatial action plan for all the taluks and districts. Developed guidelines for generating village cadastre using high resolution satellite imageries.
- **Karnataka State Spatial Data Infrastructure (KSSDI):** KSSDI is a web portal to find and access spatial information/services via the Internet. Established National Data Registry.
- **Academic and Industry Interaction Cell (AIIC)** – Under Student Project Programme (SPP), supporting innovative under-graduate and post-graduate engineering student projects. Established E-learning centres in government high schools to improve access to advanced educational resources, digital contents, Lab experiments in the form of 3D animations using

latest IT gadgets and internet.

- **Rainwater Harvesting (RWH)** - Awareness and technical support for implementation of Rooftop Rainwater Harvesting. Provides DPR for government and private institutions.
- **Digital Heritage** - Laser scanning of state archaeological sites and Hampi World Heritage site for creating virtual walk through and reconstruction/restoration.
- Geospatial mapping of **Traditional Surface Water Bodies** for restoration and rejuvenation.
- **Energy Cell** – Demonstration and dissemination of new technologies, workshops, Techno-economic feasibility reports and energy conservation & management including bioenergy. Organised a two-day national conference on Bioenergy to allow networking of all stakeholders.
- **Housing** - Research, development & dissemination of energy efficient building technologies. Over 1 lakh houses built in India and 20,000 in Bengaluru using these building technologies. Organised training for Karnataka Nirmithi Kendra engineers.
- **Centre of Excellence in Cyber Security** - Promoting the cyber safe and conducive environment for industry collaboration, address the skill gaps, build awareness & facilitate innovation in this emerging technology field of Cyber Security Startups mentoring
- **Patent Information Centre** - Promotion, protection and commercialization of Intellectual Property Rights of inventors and creators. Established 30 IP cells in engineering and degree colleges to encourage startups and entrepreneurs.
- **Karnataka – Israel Industrial Research & Development Program** – Financial support to collaborative industrial R&D ventures between Karnataka & Israeli companies.
- Science popularization / Communication / Teachers Enrichment programs; Radio Serial on Climate Change & Global Warming; National Science Day / National Mathematics Day
- **State Awards for Scientists and Engineers** - Recognize and reward Scientific and Technological eminence in the state. Instituted by Government of Karnataka.

