## STAFF PROFILE

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| **Name** | : **D. R. RAMESH** |
| **Designaation** | : **Scientist – B** |
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| **Educational Qualification** | : **B.Sc., PGDAC, CCA** |
| **Experience as on 2009** | : **31 Years** |

**a) Projects & Programmes  :**
   **Carried out**

1. Popularization of Science
2. Student Projects Programme
3. Computers in Administration
4. Environmental information system
5. Natural Resources Management information system ( NRMIS)
6. Drought Monitoring Programme
7. Remote Sensing Application Projects
8. Solid Waste Management Project
9. Rural Energy Related Projects
10. Software Development for various applications on Main, Mini and Micro Computers
11. Bangalore A-Z Project
12. Natural Resources Data Management System ( NRDMS)

**b) Currently associated Projects :**     NRDMS

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| No. of Papers Presented | : | 6 |
| No of Publications & Reports | : | 10 |
| No. of Lectures, Presentations and Programmes | : | 30 |

**Areas of activity and Interest** : SCIENCE EDUCATION,
 **INFORMATION SYSTEMS**
 RESOURCES MANAGEMENT
 ENERGY AND WATER
 ENVIORNMENT STUDIES
 SOFTWARE DEVELOPMENT
 SCIENCE AND TECHNOLOGY

## ACHIVEMENTS :

### 1. ROUTINE (up to 2000)

Plan, schedule and Co-ordination and manning of daily operations of the computer centers.

Maintenance, monitoring and trouble shooting of hardware/software, air conditioners, stabilizers, ups etc.,

Training and teaching of computer operations and various software, utility packages for KSCST secretariat staff, project personnel's

Teaching/training and project guidance to students trainees coming from BITS and Engineering colleges (yearly 2 batches).

Implementation, maintenance and monitoring and updating of various software generated for projects and secretariat.

### 2. PROJECTS/PROGRAMS :
(Listed as from the beginning to the current one)

#### Popularization of Science Project
(Prof. M.A. Sethu Rao, Prof. J. R. Lakshmana Rao)

Assisted in project proposal formulation, evaluation by Prof. C.N. R. Rao and production of Bala Vijnana a monthly magazine. Project monitoring and project maintenance including day to day administration and establishment of District Science centers. Contributed in extensive evaluation of the feed back of the magazine by general readers, from schools, gramma panchayats (about 20,000 questionnaires were evaluated and produced report single handedly for continuance of the project. Also, contributed in writing popular science articles for different sections of the magazine.

**This has led to the creation of K.R.V.P. and involved in creation of KRVP including writing by-laws and man power training.**

#### Student Projects Programme

Handled the project for four years and involved in production of white paper on the whole program.

Database creation and data analysis of all the student project sector wise, class-wise, branch and department wise listing and generation of reports for colleges.

Design of various formats for project sanction, evaluation and other technical guidance.

Involved in production of Perspective in Technology volumes for the student project Programme.

Involved in abstracting of SPP reports for microfilming the reports. (Self abstracting, guidance to the resource personnel identified and validating the same)

Organizing annual seminar meet and distribution of prizes and certificates to students.

Identifying experts and organizing evaluation trips to Engineering colleges for the benefit of students.

### Computers in Administration ( Gulbarga and Karwar Project)
(Prof. D.K. Subramanian, and Dr. S. Rajagopalan)

Task carried out:  Project development/implementation and monitoring, evaluation and improvements, including man power training. This project was carried out on CP/M machine with Z-80 as the main processor an 8-bit system with only two floppy drives. This entire software was ported to NIC of Gulbarga and Karwar upon completion of the project.

RTC (Record of Rights and Tenancy Act) , land use and land detailed information, IRDP, RLEGP, 100 wells, Anthyodaya , Bio-gas plants and accounting procedure etc., were computerized

### ENVIS ( Environmental Information System – DST-GOK Project)
(Convener : Dr. S. Rajagopalan, Co-Convener : D. R. Ramesh)

Database on plant species, which are in the verge of extinct or already extinct using dBase III and generation of reports.

Database development of some birds/animals in the forest of uttara Kannada district.

Digitization of the above pictures using AutoCAD rel 2. Software on a small A4 digitizer.

Development of Animation software for the above using StoryBoard software.

Assisted in development of Simulation software for crop growing pattern based on rainfall data using PC-SIMSCRIPT software for IIT-Kanpur student trainees. (Reference : Prof. Madhav Gadgil and Dr. Joshi of CES Dept. IISC).

## NRMIS ( Natural Resources Management Information System)

Establishment of Computer hardware / software for NRMIS project and training of manpower for the project.

Literature survey and expert panel meeting/consultation and identification of major tasks for the above project.

System design /systems analysis and system documentation of Computer Aided System for Minor Irrigation Tanks (CASMIT), Integrated Crop Simulation System (ICSS) and Rain fall data analysis Program ( RDAP) modules.

Training and orientation of the above modules for the DST sent teams.

Training of personnel's from Agha Khan Rural Support Program, Ahamadabad and in turn its wider appreciation of the modules.

Distribution and training of the software modules developed to district centers.

### Bangalore A to Z Project
Convener : Dr. B. R. Pai

Survey and data collection from Bangalore City Corporation
Aerial photographs of Bangalore from NRSA Hyderabad
Data Processing of Textual part including street index of Bangalore A to Z


DTP layouts for the A to Z book
Printing of Bangalore A to Z guide book
Distribution of Bangalore A to Z through selected book stalls
Evaluation of the product through design of questionnaire and feed back forms.

### Drought Monitoring Cell
( Sri. Ravi Puranik and D. R. Ramesh)

Assisted in creation and establishment of Initial infrastructures of drought monitoring cell.

Establishment of Computer Center and Co-ordinated the activities of DMC

Creation of standard formats for initial data collection and mapping of various parameters.

Training the manpower ( 3 typists and 3 engineers ) in day today operation of computers using Lotus, Dbase, Word Star, Fortran and Autocad and data conversion techniques from one another.

Conversion of rainfall software developed on HP-1000 m/c to DEC-1090 and for PC-platform.

### 3.  KRVP and ASTRA

Production of English-Kannada Dictionary for KRVP arranging and sorting of 15 different subjects and collation of the same and creation of database with sorting/merging of 12,000 scientific words.

Establishment of DTP centers, implementation and training of KRVP staff in using Ventura and Prakashak Bi-lingual software for Bala Vijnana and other publications.

Assisted Mr. Rajbapaiah in establishing computer facilities for Rural Energy Center Project at ASTRA for creation of database at village level for energy usage.

Assisted Dr. Chanakya in establishing computer center under wasteland reclamation project.

Establishment of Belgaum Science Center and staff training

Computational facilities and database creation on Parthenium  Allergy and Astma Research project to Prof. P. V. Subba Rao of Bio Chemistry dept. I.I. Sc.,

### 4.  KSCST Secretariat service

Involved in establishing audio/video facilities such as TV, VCR, Camera, Projectors etc.,

Assisted in establishing computer interfaced TELEX and Electronic mail facility, Laser printer, scanners.

Computerized EPABX based Telephone network to KSCST

Assisted in preparation of slides, transparencies, graph/charts data collection and analysis to vice-chairman, secretary and Executive secretary on various projects, programs and seminars.

Assisted as reporters for various KSCST and ST-GOK and GOI held seminars, conferences, workshops, symposiums and brain storming sessions, Training programs etc.,

Assisted to various NGO's like BJVJ, NCST, NCERT, DSERT, NSIC, CTD, DSF etc., in popularization S&T activities and to their requests/requirements upon directive from KSCST.

Assisted in setting up Computer cell at DST-Earth Sciences division, Delhi.

Assisted in setting up S&T database cell at DST- GOK.

Involved in project administration of Innovations in Electronics project

Involved in documentation & preparation of 7th and 8th plan document at planning dept. GOK.

Database creation on Solar Pond and e-mailing the same to Prof. J. Srinivasan at USA

Database and analysis of URJA Gram Survey reports

Database creation and analysis of ASTRA OLE beneficiaries

Involved in preparation of KSCST annual report both in English and Kannada

5. **Higher Skills and Training Acquired**:

Orientation in remote sensing applications to forestry and ecology conducted by IIRS-Dehradun

Short-term course on digital image analysis conducted by ISRO-RRSSC Bangalore

Short-term in-house courses conducted on solar energy systems and wind energy system.

Six-weeks Advanced Techno-Management Programme at ASCI Hyderabad

6. **Miscellaneous:**

Project Proposal evaluation and feed back asked by DST_GOI and DOE in the areas of informatics, communication and GIS.

Given several Radio talks on popular science topics

Exposure lecture series at Administrative Training Institute, Mysore for Govt. officials (IAS, KAS and Engineers cadres) on use of computers in district administration.

Training of ATI officials on use of computer software such as lotus, WordStar, dbase and development of library information system software.

Assisted various project convenors in providing computing facilities such as computer hardware/software, data conversion utilities.

 Involved in establishing computer network and Journal production for IEI - Bangalore

**7.   Natural Resources Data Management System (NRDMS) : 1992-2000**

Convenor : Dr. S. Rajagopalan,  Co-Convenor : D. R. Ramesh

NRDMS Project Proposal formulation, Project Administration and Project Management/Monitoring, and appraisal.

Man power recruitment, evaluation/training ( In-house and external)

Establishment of District NRDMS centers

Formulation of action plan ( initial stages )

Progress reports, Annual reports, Co-ordinators and working group meetings and minutes

Small projects for district centers

Preparation of course materials and popularization of GIS and Image processing techniques and relevant software

Establishment of linkages with various organizations like RRSSC, NRSA, SOI, DLDB, KGCC, DCST, Academic institutions, NICNET, ERNET and other NGO;s

Periodic maintenance of hardware/software, up-gradation etc., at the district centers

Design of brochure, leaflets, manuals on NRDMS methodologies for the end users

Establishment of Documentation center and BBS services for the project

Preparation of Data Directory and design of data flow sheet and formats for various sectors


Beta site testing and feed back reports on various Decision Support System software for NRDMS project

Preparation of technical report highlighting the role of NRDMS, NIC and DOS (NRSA/RRSSC) for project justification to DST and planning commission.

Production of NRDMS  Book Vol 1 and Vol 2.

Proposal for extension of NRDMS Project Phase – II (1998-2002)

Proposal for establishing e-mail network for KSCST & NRDMS ( SATNET)

In addition to the above, I was involved in preparation of the following project proposals which are submitted to DST.

A.  Under UNDP Assistance – through DST- GOI:
    ( P.I. : S. Rajagopalan )

    1.  Development of Improved Procedure for Data Collection and operation at the District level
    2.  Development and implementation of a DSS for forest management
    3.  Development and implementation of a DSS for water management
    4.  Development of a DSS for siting of micro-hydel systems
        ( Expert Group/assistance, Collaborating agency, infrastructure facilities and cost benefits have already been worked out while submitting the proposal)

B.  Under The Netherlands assistance through DST-GOI
    Ref : Drs. M. J. Dewit, Bankastraat, 1094eg, Amsterdam
    P.I. S. Rajagopalan
    Proposal for Area Development and Strengthening of NRDMS centers for Bijapur and Dharwad district has been submitted to DST.

Center for Technology Development (CTD, I.I.Sc.,)

A proposal to set up a full fledge GIS/Image processing lab with training facilities has been submitted to CTD for further strengthening of NRDMS project :

**8. District NRDMS Center: Bangalore Rural District ( Currently working )**

Detailed activity is appended.