

SHORT CV OF Dr.S.S.Rao

Name: SRIGIRIRAJU SRIHARI RAO
Rtd. GM (Tech), NABARD



Address

305, Kalasagar, Satellite Road, Besides Star Bajar, Ahmedabad, Gujarat, 380015, Tel Nos 91-79-26766454,
ssriharirao@yahoo.com

Education

- MSc (Geology), 1964, Karnataka University, Dharwar
- Ph.D. in Hydrogeology, 1976, Pune University
- MSc (Applied Mathematics) with specialization in Operations Research and Computer Applications, 1982, Gujarat University, Ahmedabad
- AMIME (Mech. Eng) 1995, (Equivalent to BE (Mech), Institute of Mechanical Engineering (I), Bombay with specialization in Computer Applications.

Computer Programmes:

- Visual Basic, ArcGIS-10.3, Visual Modflow, Groundwater Vistas, GMS10.2, HEC-RAS, Hec_GeoRas, HEC-HMS, M.S.Office, SWAT, AquiferPro-test, Aquachem, Rockware, SWIMM, EPANET
- Had a special training in NID of Ahmedabad in PageMaker, Photoshop, Coral draw etc to be used in designing.
- REMOTE SENSING AND GIS conducted by ISRO, Ahmedabad

Training programmes

- Attended two months training programme on IRRIGATION AND EXTENSION in ISRAEL.
- OPERATIONS RESEARCH conducted by Pune University and Armament technology, Pune
- CPM & PERT & PROJECT MANAGEMENT programme at Center for Environment and technology, Ahmedabad
- DESIGNING OF SMALL DAMS & SURFACE IRRIGATION STRUCTURES at WALMATARI, Hyderabad.
- Training programme on LIFT IRRIGATION at Roorkee University

Consultancy

Providing consultancy services in the field of Water Resources & Water shed management, Hydrogeology and financial planning for rural infrastructure, Self-Help Groups etc.

Key assignments conducted are listed below :

Surface Water:

- Flood Modelling in Diamond city Surat for Royal Hoskoning DHL, Netherland
- Review and guidance of Sewerage pipeline installations, storm water drainage and water harvesting for small cities by Global Scientific Incl, Nagpur
- Water balance studies of upper lake in Bhopal using Soil and Water Assessment Tool (SWAT) in association with **CEPT**
- Impact study of Pluvial, Fluvial, Tidal and groundwater floods of Narmada River on the industrial belt of Vagra taluka, Bharuch district in association of Mott Mac India consultancy.

- Preliminary study of the effects of developing river front of Sabarmati river, Ahmedabad along with CEPT
- Regional Planning of Water Supply and Irrigation Development in the State of Union territories of Dadra-Nagar and Haveli
- Designing of Water harvesting system for High tech Engineering industrial park (SEZ) implemented by Suzlon Infrastructure at Waghodia, Vadodara. VMS Engineering Consultants
- Impact Assessment of Rural water Supply in Hansot Taluka of Bharuch District and the use of RO plants in mitigating the drinking water problem in Saline areas

Groundwater

- Groundwater Modelling of Perched water bodies of Dhorai dam in Mehsana District using Visual Modflow and SWAT.
- Aquifer mapping of Gujarat aquifers- GWRDC
- Developing groundwater models in **Srilanka** & Conducted training programme for Hydro geologists of Water Resources Department of **Government of Srilanka** during 15th August to 26th August 2011, in Visual Modflow.
- Groundwater modeling for estimating groundwater resources of Parts of Yemen. **Government of Yemen using Visual Modflow.**
- Water resources and water harvesting possibilities and environmental impact in the project area of TATA-NANO small car project in Sanand taluka of Ahmedabad district with groundwater modeling of contaminants. L.D. Eng. College.
- Groundwater pollution due to Sanitation - ARGHYAM
- Training to the officers of Gujarat Water Resources Development Corporation (GWRDC) on Visual Modflow, GWVISTAS, DRASTIC.
- PRAVAH for technical guidance for demonstration of projects for drinking water schemes
- Hydro geological aspects of linking of rivers from Yamuna to Sabarmati in association with Multi Mantech International Pvt.Ltd.
- Design and hydro geological aspects of Badarpur-Kareli weir on Mahi river
- Study on groundwater estimation methodology of dark and overexploited blocks of Gujarat- GWRDC
- A regional groundwater model was prepared in hard rock's (Basalts) area of M.P in association with Regional Research Laboratory (RRL), Bhopal to estimate the groundwater balance and future sustainable use of groundwater in the area.
- Developed Special computer software in VB6 for analyzing pumping tests in dug wells as well as tube wells and small lift irrigation schemes


Agriculture & Allied activities

- Monitoring Agriculture and Irrigation projects in A.P, Telangana, H.P, Orissa & M.P supported by JICA through NABCONS.
- Women and Child welfare Department, Govt of Gujarat in Watershed and Minor Irrigation to the Women Groups set up by the department in Gujarat, which includes formation of SHGs and providing Micro credit.
- Saurashtra Jaldhara Trust for Techno Economic evaluation of Check dams constructed by them in Saurashtra, Gujarat
- Self Help Groups formed under Swashakti project of Govt of Gujarat in monitoring and financing activities in the areas of Water harvesting.
- SEWA for Base line survey, Monitoring and Evaluation, Financial monitoring and MIS development for IFAD project in association with ORGPL, Delhi
- FICCI_CARE India Group in the areas of
 - (i) Working Capital requirement of SHGs in various handicrafts like Pottery, Hand printing (Weavers), and Hand made paper, Metals works, Embroidery etc in Kutch
 - ii) Water harvesting projects financed by them in Rajkot, S'Nagar districts.

- *National Bank for Agriculture and Rural Development (NABARD)*
 - *i) Appraisal of Narmada pipe line project for lifting water from Narmada main canal and releasing the same in Dharoi dam*
 - *ii) Monitoring of Saurashtra Branch Canal of Narmada under RIDF.*
 - *(iii) Appraisal of construction of 12000 check dams project proposed by Irrigation department, Govt of Gujarat to NABARD for financial support.*
 - *iv) Watershed programmes under Indo –German programmes,*
 - *v) Monitoring of various irrigation projects financed under RIDF, NABARD.*
- *Agriculture Finance Corporation (AFC), Ahmedabad in*
 - *(i) Rural Infrastructure in the areas of Water Resources monitoring of RIDF projects of NABARD,*
- *Center for Environmental Planning and Technology (CEPT), Ahmedabad in*
 - *(i) Water Resources and Watershed Programmes*
 - *(ii) Guidance to students in watershed programmes,*
 - *(iii) Sabarmati river embankment programme,*
 - *(iv) Water Resources programme in Vagra taluka, Bharuch district,*
 - *(v) Time Motion study under NREG programme, with computer analysis of data with SPSS.*
 - *(vi) Economic Appraisal of JNNURM projects*

Faculty support to

- i. GJTI**
 - a. *Faculty support to All India participants of Hydro geologists and Engineers in “3Rs- Recharge, Retention and Reuse,” for Gujarat Jalseva Training Institute, Gandhinagar. Govt of Gujarat.*
 - b. *Gujarat Jalseva Training Institute, Gandhinagar in the areas of Water harvesting, artificial recharge and roof top harvesting etc.*
- ii. CEPT**
 - a. *“Water Resources Modelling” for M.Tech Students of CEPT University*
 - i. *Training flood modeling in Hec-Ras and Hec-Georas and Hec-Hms , SWAT, SWIMM Groundwater Modelling, DRASTIC for postgraduate students of at CEPT university*
 - b. *Watershed programmes, Linear programming models and PRA and RRA for infrastructure and environmental planning students at CEPT*
 - c. *Guidance for M.Tech and Ph.D students of CEPT in water resources for urban context.*
 - d. *Water Resources Engineering and Management for B.Tech Students of SBST, CEPT.*
- iii. L.D.Eng College**
 - a. *Groundwater Hydrology and contamination along with watershed management for M.Tech Students*
- iv. District Rural Development Agency, SPIPA in Watershed, Check dam design, NREG, GIS.**
- v. Watershed Management Programme conducted Centre for Environmental Planning and Technology (CEPT), DRDA, SIRD, AIR Force Academy, SEWA etc.**
- vi. Center of Excellence in Environment & Sustainable Development (CEED) in Socio Economic Aspects of Water and Conservation of water, water harvesting, artificial recharge, Water and Agriculture. Taught PRA practices, economic and social evaluation of projects etc.**
- vii. SriLanka**
 - *Conducting Training workshop in Ahmedbad and Bhopal for the Engineers and Hydro geologist of SriLanka during the month of May 2014 regarding Water Resources and Watershed Programmes in India.*
- viii Yemen**
 - *Conducting Training workshop for Visual Modflow for the officers of Irrigation Dept, Yemen.*


(Dr.S.S.Rao)