

CV of Dr Kaval Kumar D

Name : Dr Kaval Kumar Dasanla
Profession : MIS and GIS Expert
Date of Birth : 10th December, 1973
Education Qualification : Ph.D. (Web enabled GIS applications) from Osmania University, Hyderabad
M.Sc(Tech.) in Hydrogeology from Osmania University
Professional Diploma in Information Technology(PGDEM) from CMC Ltd.

KEY QUALIFICATION

Dr Kaval Kumar is a Post Graduate in Sciences and Doctorate in Web enabled GIS applications from Osmania University. Dr Kaval has more than 20 years of rich and relevant experience in Project preparation, Project appraisal and Project monitoring. He worked as Resource scientist and interpretation of satellite image expert in INRIMT and played a pivotal role in MEPMA (Mission for Elimination Poverty in Municipal Areas), Govt. of Telangana & Andhra Pradesh in appraising Housing and Slum upgradation proposals submitted by various Urban Local Bodies in the state of Telangana and Andhra Pradesh.

Dr Kaval is now working with Price Waterhouse Cooper (PWC) which is now functioning as Project Monitoring Unit with Ministry of Housing and Urban Affairs, Government of India. He is working as Project Coordinator for ongoing PMAY Project for Southern states which includes Kerala, Tamilnadu, Andhra Pradesh, Telangana, Karnataka, Maharashtra and three Union Territories namely Pondicherry, Andaman Nicobar and Lakshadweep.

GIS Expert with sub-national and national experience in offering technical and managerial advisory and support to national flagship programmes such National Urban Renewal Mission, Rajiv Awas Yojana, and the Pradhan Mantri Awas Yojana. He has nearly two decades of experience in academia, industry, and sub-national and national governments. An alumnus of Osmania University, where he attained his PhD in GIS,

Dr Kaval Kumar is dexterous, erudite, and committed to contributing toward national development and growth. He brings with him experience in Remote Sensing, Urban Housing, Land Use and Land Cover Planning, Urban GIS Applications, and Socio Economic Policy making and programme implementation.

ACHIEVEMENTS

- i. Played a pivotal in MEPMA (then combined AP) in ensuring submission of DPRs, obtaining approvals from Government of India under JnNURM(BSUP and IHSDP), Rajiv Awas Yojana (Housing and Infrastructure proposals);
- ii. His role was paramount importance in obtaining sanctions for 80,481 Dwelling Units under Pradhan Mantri Awas Yojana for different Urban Local Bodies in the

state of Telangana which includes 32,091 Dwelling Units for Greater Hyderabad Municipal Corporation ;

- iii. As a Regional Coordinator-South from MoHUA-Gol, he motivated the nodal agencies of southern states in general and Andhra Pradesh and Telangana States in particular for quickening/speedup the implementation process and initiated new proposals from these states. With his initiation, about 2,70,000 DUs were approved for various ULBs in the state of Andhra Pradesh and new proposals for 1,05,000 DUs are being submitted to the MoHUA-Gol for approval;
- iv. He is closely monitoring more than eleven lakhs DUs in almost 8 states/UTs and ensuring quality and timely progress of housing projects besides ensuring establishing state level and city level technical cells.

Regional Coordinator (South and Maharashtra)

Ministry of Housing and Urban Affairs, Government of India

Employer: Price Waterhouse Coopers (PWC)

Tenure: 2016 to date

Work Profile:

- Demand assessment and hand holding state Governments in formulation of HFAPoA (Homes for All Plans of Action)
- Advising State Governments on policy changes aimed at reforming urban development to render cities inclusive and accommodative of needs of the poor
- Inspect Project Sites in various states to render advise on convergence and infrastructure connectivity
- Documentation of national good practice in development of homes for all
- Conduct Project Appraisal and Programme Fitness Assessment
- Capacity Development of stakeholders in States and Urban LocalBodies
- Conduct Event management for PMAY
- Appraise CB (Capacity Building) Plans of states

Team Leader

RAY and PMAY PMU (Programme Management Unit)

Government of Andhra Pradesh/Telangana

Employer: CGG, Hyderabad

Tenure: 2011-2016

Work Profile:

- Conduct of Demand Survey, HfAPoA& AIP (Annual Implementation Plan) Projections,
- Rendering Presentation to State Government (SLSMC) and Gol (CSMC)
- Review of Physical and Financial Progress of various activities under Housing for ALL (Urban)
- Preparation of Quality Assurance reports and Preventive and Curative measures to ensure standard quality houses and infrastructure constructed under the mission.
- Render advise to ULBson Total Station Survey (TSS) in GIS

- Render advice to ULBs on acquiring satellite images for preparation of base maps and work closely with the GIS & MIS consultants/ ULB officials on digitization, geo-referencing, ground verification and preparation of base maps etc.
- Work closely with M&E Expert in providing advisory support to local bodies for collating spatial and non-spatial information and in the fold to get GIS-MIS integration.
- Work closely with the Urban Planners, Engineers and provide guidance to the local bodies in the development of “Slum Development Plans” and “Slum-free City Plan of Action” & “Housing for all Plan of Action” (HfAPoA)
- Develop Capacity Building Strategies for Andhra Pradesh
- Encourage use of GIS& MIS in various planning functions of ULBs
- Organising consultations with different Stakeholders including Special Chief Secretary, Commissioner and Director of Municipal Administration, Mission Director, MEPMA, and ULB officers

Faculty

Engineering Staff College of India (ESCI), Hyderabad

Tenure: 2008-10

Work Profile:

Preparation of Course Material and Consultancy assignments in GIS, IT and Integration of Data for Working Professionals in various Government Departments across India, and Conduct Training in the areas of:

- Use of Total Station and DGPS-Hands on exercise
- Remote Sensing & Geographic Information system and GPS -Applications
- Integrated Watershed Development and Management with Field Applications of Total Station and GPS
- Use of Auto Cad & Arc GIS
- Remote Sensing, MIS and GIS in Urban Local Bodies
- Total Station Survey and GIS & MIS Data Integration in Urban Local Bodies under Rajiv AwasYojana (RAY)
- Web Enabled GIS Applications in Urban Local Bodies

Town Planning Resource Person & Team Leader

Andhra Pradesh Urban Services for the Poor (APUSP)

Municipal Administration Department

Government of Andhra Pradesh, Hyderabad

Tenure: 2006 to 2008

APUSP was a partnership project between the Government of Andhra Pradesh and the Department of International Development (DFID), Government of UK, aimed at achieving sustained reduction in the vulnerability and poverty of the urban poor in Andhra Pradesh. The Seven Year Project was launched in 2000 covering 32 class I towns (with a population exceeding one lakh) and benefitted approximately 2.8 million slum dwellers. Following mid-term review, the project coverage was expanded to cover 42 towns of Andhra Pradesh.

Work Profile:

- Support in Project Planning: Supervision of Preparation of DPR
 - Monitoring Physical Progress
 - To implement infrastructure projects in slums and urban reforms
 - Render advisory on issues of sustainability of project assets and other social and institutional risks at ULBs
 - Identification of beneficiaries and their needs through socio economic surveys
 - Support and assist Municipalities in updating of maps on regular basis, identification of potential GIS applications and implementation of these Applications
 - Support GIS base mapping, Property and Utility mapping
 - Quality check review on the output of the GIS work carried out by external agencies and assesses performance against TOR.
 - Develop City wide GIS Plans& conduct Training of Personnel on GIS
 - Research review and prepare source documents for data entry
 - Research to identify trends technologies to update on a GIS platform
- Evaluation of Practical proposals to improve information management in Municipalities and identification of Non-Notified slums to Notified slums by CDMA

Municipal GIS Expert

Indian Resources Information & Management Technologies Ltd. (IN-RIMT),Hyderabad

Tenure: 1998 to 2005

Development of GIS Maps for Nagar Nigams (ULBs) of Dehradun, Agra, Lucknow, and Ghaziabad in erstwhile unified Uttar Pradesh

Work Profile:Generation of the Municipal information data base using high-resolution satellite data (IKONOS) along with the base map relating to household properties, property tax information and other information on municipal activities. The information system also helped Municipal Authorities collect various bills with ease.

Experience on Consultancy Projects

Project # 1

Client	Andhra Pradesh Pollution Control Board (APPCB)
Title	Industrial Pollution Prevention Project – II
Location	19 districts of Andhra Pradesh
Environment	Arc-Info 7.2.1, Arc-View 3.1
Role	Resource Scientist/GIS Engineer

Description: Andhra Pradesh Pollution Control Board has initiated a world bank funded Industrial Pollution Prevention Project for identifying the future developmental industrial zones along the growth corridor as per Vision 2020. The data generated in this project is also useful to

the other seven sectorial departments. Around 31 thematic Integrated and Derived layers were prepared under this project. For this IRS 1C, 1D 3 season data has been used.

Role Description: Analysis and overlay of thematic layers derived layers for deriving the suitability map which helps in identifying the future industrial development based on environmental consideration. Formulating the database structure for other districts, which helps to APPCB, and other sectorial departments for easy extraction from the huge amount of data. Quality control of the data has been done.

Project # 2

Client	National Remote Sensing Agency
Title	Rajiv Gandhi National Drinking Water Mission
Location	Parts of Andhra Pradesh, Karnataka, Chattisgarh, Rajasthan and Madhya Pradesh
Environment	Arc-Info 7.2.1
Role	GIS Engineer / Resource Scientist

Description: The main aim of this Project is to provide drinking water where the villages were not covered or partially covered. For this the client has supplied the data of IRS-1C/ID. The Ground water prospects map shows the morphological features of the area, litho logy, structures and hydrological information including irrigated areas and existing well information collected during the limited field checks. The final map shows all such above information for targeting the potential areas.

Role Description: Visual interpretation of ground water prospects map which includes the lithology, structures, geomorphology and hydrological information includes ground truth collection. Analysis and plot generation by using NT Arc-Info.

Project # 3

Client	Tata Chemicals limited (TCL)
Title	Preparation of softcopy of village cadastral map of
Location	Different districts of Uttar Pradesh.
Software Used	ARC/INFO 3.5.1 & ARC/INFO 7.2.1 Arc. View 3.2.
Role	GIS Engineer

Role Description: This project consists of different Tahsil, Villages, Records and creating a database in excels at last joining the database from excel to Arc info. Editing of all items and joining the database as per the specifications given by Tata Chemicals Limited and finally preparing softcopy in e00 format.

Project # 4

Client	APUSP
Title	Web enabled GIS application for Qutbullapur Municipality.
Location	Qutbullapur Municipality.
Software used	Platform .Net, Front end: ASP, ASP. Net, C#, Arc-SDE 9.1, Backend: SQL Server 2000, Application Server: Arc IMS 9.1,
Role	Team Leader

Description: The main objective of this application is to develop an online version of standard application developed by Administrative Staff College of India (ASCI) to organize a centralized data base for large spatial & Municipal GIS to provide privilege based access for updating and editing information Online delivery of Geographic information.

Technical Skills

Operating system : Microsoft Windows 95/98/XP/NT, MS-DOS
Software Packages : MS office
GIS software : Arc-Info 7.2.1, Arc-View 3.2, Arc-GIS Desktop 9.3
Auto Cad Map 2000, Arc IMS; Knowledge of ARC/SDE

Remote Sensing

Software : ERDAS 9.1

Programming : AML, Fundamental knowledge of Avenue

Certification : Professional Diploma in Information Technology from
CMC Limited.

Contribution to Committees

- Member of Telephone Advisory Committee for Hyderabad /Telecom District – Department of Telecommunications Ministry of Communications &IT ,New Delhi.- Till 30-9-2011.
- Member of Area Sabha/Ward Committee Member from Red Hills- Greater Hyderabad Municipal Corporation – Government of Andhra Pradesh.
- Member of Osmania Geology Alumni Association (OGAA) – Executive Member Of OGAA
- Member of Shanti Chakra International - Life member of International Organization.
- President of People Action for Development in Rural Areas – (PADRA)
- Member in Geospatial World Forum.

Participation in Learning Opportunities

- Regional Workshop on Capacity Building & Training for Decision Makers on GIS Mapping , Total Station Survey, MIS Development and Integration of GIS With MIS Scheduled on 17th -18th March 2011 at RRSC Nagpur.
- Field Training Program in the State Ground Water Board, Hyderabad
- National Seminar on Geographic Information Systems in Geo -Sciences.

- National Workshop on Atomic Minerals Deposits: their Utility and Impact.
- Pre-workshop on Water Resource Management in Hyderabad and Its Environs - Organized by Prof. CalamurMahadevan's Students and Admirers Association and Salarjung Museum, Hyderabad.
- 85th Session of Indian Science Congress –1998 Osmania University, Hyderabad from 03-01-1998 to 07-01-1998.
- Alumni Meet and Foundation day Technical Session on “Diamond Exploration in India“ (2006)
- National workshop on emerging Geological concepts on Exploration and Exploitation of resources, Platinum Jubilee Hall PGRRUDE Osmania University on 27 & 28th June, 2008, Hyderabad.
- Regional workshop on Slum Survey MIS e-Tool, DataAnalysis, Generation of MIS Reports – organized in Chennai by MoHUPA,Gol

Academic Qualification

Doctor of Philosophy (PhD) in GIS, Osmania University (2011-17)

Master of Science in Technology MSc(Tech) in Hydrogeology with exceptional academic record (1st rank in OsmaniaUniversity) (1998-2000)

Master of Science in Geology with Distinction in Osmania University (1996-98)

Professional Diploma in Information Technology (**PDIT**) from CMC Ltd, Hyderabad

PG Diploma in Environmental Education and Management (**PGDEM**) from University of Hyderabad (2005)

PG Diploma in Computer Applications (**PGDCA**) from Softcom Systems. Hyderabad

Personal Profile

Date of Birth	-	10 th December, 1973
Marital Status	-	Married
Languages Known	-	Telugu, English, Hindi
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