

Pawan Kumar Tiwari

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**Objective:**

To be a part of a professional and dynamic organization where an individual's growth is viewed through the growth of the organization and to work in a challenging environment, which constantly enhances my skills and supports my career growth.

10 YEARS EXPERIENCE IN REMOTE SENSING AND GIS FIELD**1) 2nd July 2018 till Date**

Organization: SAI Consulting & Engineers Pvt. Ltd. (SYSTRA GROUP)

Position: GIS EXPERT

Project: Project PSC for Directorate of Town & Country Planning (DT&CP), Chhattisgarh.

Responsible for preparation of Base Map, Existing Land-Use map, Proposed Transport Network Map with feasible width and as per Transportation Guidelines, and Proposed Land Use (Development Plan) DP for various towns, cities and Planning Areas as per projected population for that Planning area. I am also Prepare of Digital Elevation map (DEM), Site Suitability Analysis Map, Ward boundary, Population Density Map, Regional Map, and another thematic map. Preparation of all maps and analysis in Arc GIS, AutoCAD and other GIS Software. Responsible for the coordination, Meeting, Presentation, and final submission of DP as per section 1973 of CG Town Planning act.

2) 21st September 2017 to 29th June 2018.

Organization: Science and Engineering Research Board (SERB), Department of Science and Technology (DST), Government of India.

Position: Programme Associate in Earth & Atmospheric Sciences (EAS) Division.

working as Personal Assistant (PA) of Scientist "G" and Head of the Department of Earth and Atmospheric Science (EAS). I am working as Coordinator of Some Programme/Fellowships provided by SERB for Indian Scientist, professor and students. Mission of this programme is "As the premier national research funding agency, raise the quality and footprint of Indian science and engineering to the highest global levels in an accelerated mode, through calibrated support for research and development". I am responsible for scrutiny of Project proposals report, arrangement of meeting of scientists & professor from AIMS/ISER/IISc and other reputed universities for selection of suitable candidate, budget allocation, financial management, validation of Statement of Expenditure (SE) & utilisation Certificate (UC), project report monitoring, project progress report, and all related documents and progress of that project. I was guided by Dr. R K Mehajan (Scientist "G" & Head EAS Division), he was Retd. Group Caption of Indian Airforce (IAF).

3) 11th January 2016 to 20th September 2017.

Organisation: Lepton Software Export & Research Pvt.Ltd.

Position: Senior Remote Sensing Engineer/Team Lead

Project: Team Lead of 10 GIS Executive for Land-Base creation for Jabalpur & 6 Other cities of MP & Chhattisgarh for Airtel.

Project Lead of Land-Base and Road Network Mapping for CIDCO Navi Mumbai at 1:1000 for GIS base data base management and future enhancement of Transport Network.

Team Member: Geo-referencing and Resolution merging of Carto Sat & Liss IV of Mizoram, Bihar, Jammu & Kashmir for NIC.

Team Member: Satellite Imagery based Land use map creation of Kerala and Karnataka at scale 1:10,000 for NIC.

Team Member: Land-use land-cover clutter data creation for Germany, Turkey, & Canada with Remote sensing technique on Land Sat data.

Achieved: Good technical knowledge from seniors and colleagues and management skill I learn from Lepton Software E & R Pvt. Ltd.

4) 1st June 2014 to 9th January 2016.

Organization: STUP Consultants Pvt. Ltd. New Delhi.

Position: GIS Analyst.

Project: JICA Assisted Delhi Water Supply Improvement Project in Chandrawal Water Treatment Plant (WTP) Command Area, New Delhi, India.

Worked as a GIS Analyst and report to Co-PM, regarding Water Supply Network. Create Existing Transmission line with the help of field Survey, DGPS & GPS. Plotting all water supply apertures on map with the help of GPS point taken in field by survey. All UGR, WTP, BPS and OHT Location plotting on map. Creation and update of DMA and UGR command boundary with the help of Ward boundary and population data available with us from Master plan of Delhi. Database maintenance and area calculation for UGR command area and demand calculation. Creation & updation of existing distribution network. Detail drawing preparation for trenchless system with the help of DGPS Coordinate. Worked with water supply expert for Proposed Transmission system, Proposed Distribution main.

Achieved: Some international parameters regarding Installation of Pipes and other apertures. Worked with International Expert and learns too many technical things. Project first phase completed and DPR submission.

Client: Delhi Jal Board, Government of Delhi. India.

5) 21st January 2013 – 31st May 2014.

Organisation: Uttar Pradesh Remote Sensing Applications Centre. **UP-RSAC.** Lucknow.

Position: Project Scientist.

Project: Project handling in UP-RSAC. Responsible for Land use/Landcover Mapping, of all district of Uttar Pradesh on Liss IV Satellite data, Space Based Information support for Decentralized Planning (SIS-DP) at scale 1: 10,000 for all districts of UP, Cadastral Mapping, Natural Resource Information System (NRIS) Data base presentation at different scale. Worked as Coordinator in Training Division & M.Tech. Programme in Geo-informatics running in UP-RSAC and approved by AICTE New Delhi.

6) 16th July 2012 to 21st Dec 2012.

Organisation: Japan International Co-operation Agency (JICA).

Position: GIS Mapping Assistant.

Client: Public Work Department & Water Supply department Panaji, Goa. India

Project: Water supply improvement project for Panji City, with mapping of Leak Detected area on Ground in pipelines and all household mapping with Connection and other necessary attribute data in GIS format. I have trained more than 30 persons in Water Supply Department Panji Goa, main training programmes topics include (Introduction of GIS, GIS Software, Creation of GIS Database, Management of Water supply database in GIS format) & how to relate GIS and Water supply data in GIS environment.

7) 29th Nov 2010 to 13th July 2012.

Organisation: Spatial Decisions Pvt.Ltd.

Position: Remote Sensing and GIS Expert.

Project: LU/LC mapping Bareilly on LISS IV data, Contour mapping of Bhutan. City Development Project for Sidhi and Rewa city of Madhya Pradesh. Master Plan creation for Sagwara and Nainwa town of Rajasthan. Village Development Plan for Village Mandar, Bhavri (Dist-Sirohi), Talwara, Ghatol (Dist-Dungarpur) of Rajasthan. Rajghat Thermal Power Plant Mapping of New Delhi. Property tax mapping of Singrauli District of Madhya Pradesh.

Client: Government of UP, Government of MP (municipal Corporation), and Awas Vikash Parishad, Government of Rajasthan.

8) 25th May 2009 to 1st June 2010.

Organisation: InfoTech Enterprises Ltd. Currently known as **CYIENT** (ISO 9001, AS9100 standards, CMMI Level 5).

Position: GIS Engineer

Project: I have started my GIS & Remote Sensing Career from InfoTech Enterprises Ltd. with Navigation Mapping. I was trainee for 6 months, further I was GIS Engineer and created and updated Navigation mapping, Transportation Network Mapping, Railway, road and water transportation mapping. I have created and updated Navigation map for different countries of Europe, Asia and South America, Where I have created POI, Sign Location, landuse details, Bridge, Over Bridge, Under Bridge, Camera Location, Height of Underbridge and other important information related to Transportation.

Interests:

- ❖ Application of Remote Sensing & GIS techniques for water supply management, NRW (Non-Revenue Water Reduction and Assets management in Water supply).
- ❖ Application of Remote Sensing & GIS techniques for Urban & Regional Planning, Village Development Plan.
- ❖ Remote Sensing and Satellite Image Processing and advance research work.
- ❖ Navigation mapping & Transportation mapping.
- ❖ Social Service for Old Age, Children's, Women and Weaker section of Societies.
- ❖ Protection of our Environment from Pollution & Conservation of Water.

Computer Skills and Competencies

- ❖ Expert in Remote Sensing and Geographic Information System (GIS) Software like ArcGIS (Basic, Standard & Advance), Erdas Imagine, AutoCAD Map, Quantum GIS (QGIS), Mapinfo, Global Mapper,
- ❖ Advanced aspects of computer use – Window OS, MS Office (all package), Database Management.
- ❖ Basic Microsoft Access.

Other Skills and Competencies:

- ❖ I am founder of an NGO name “BhuSanrakshnam”. Mission of this NGO is free India from Single use plastic and save our Mother Earth and Conserve water. Where I have more than 100 members in Chhattisgarh.
- ❖ Time management and multitasking skills developed by involvement in NGO based socio-cultural activities during student life.
- ❖ Presentation skills developed by giving presentations in high-tech environment during my Ph.D in various International and International Conferences. And at UP-RSAC, Natural

Resource Information System (NRIS) database presentation at different district of Uttar Pradesh in front of District Magistrate (DM).

- ❖ Research and scientific reporting skill acquired by attending basic research skill module during Graduation and PG Diploma in Banaras Hindu University (BHU).

SEMINAR / SYMPOSIUM ATTENDED / PAPER PRESENTED

- ❖ Seminar/ Symposium attended - 4
- ❖ National Paper Presented - 5
- ❖ International Paper- 2.

First in Beijing China at International Geographic Union (**IGU**) congress in aug-2016.

Second in Guwahati, Assam at **IGU** congress in Feb-2018

TEACHING EXPERIENCE

- ❖ Visiting faculty of Department of Geography BHU, lecture on Topic: Landuse/Landcover mapping, Urban Planning and Master plan creation, use of tools in ArcGIS, ERDAS Imagine, QUANTUM GIS and Auto CAD Map.
- ❖ Lecture on Database creation in Natural Resource Management with the help of Remote Sensing and GIS techniques at Department of Geography, BHU.
- ❖ Coordinator in M.Tech. Programme in Geo-informatics running at UP-RSAC.
- ❖ Worked as a Trainer in NRW project funded by JICA for Public Work Department. Panaji. Goa, India.

JOB SKILLS

- ❖ Digital Image Processing, Image Interpretation, Photogrammetry, Cartography, Remote Sensing. Geometric Correction and Geo referencing, Enhancements, Sub setting, Supervised and Unsupervised Classification, Map Composition, and DEM creation.
- ❖ Geoprocessing, Creation of Geo-database & Coverage file, Building Topology, Query building and Analysis Site Suitability Mapping.
- ❖ Town Planning, Urban Planning, and Proposal writing etc.
- ❖ Worked with different Satellite data like as: IKONOS, Quick bird, SRTM, Land-sat, LISS-III, LISS-IV, ASTER, Modis & Cartosat 1&2.
- ❖ Extraction of Thematic Information from Stereo Pairs-Lithology, Structure Geomorphology, Land Use, Slope and Height from Aerial photos, etc.
- ❖ Working Experience in GPS, DGPS handling and Total Station Survey.

Professional Education:

- ❖ **2016-** Post Graduate Diploma in Urban Planning and Development (**PGDUPDL**) form IGNOU. New Delhi.
- ❖ **2015-** Passed IT Literacy Programme (**CCC**): Course on Computer Concepts from **National Institute of Electronics and Information Technology**, NEW DELHI.
- ❖ **2009-2011: M.Sc. (Remote Sensing and GIS):** Global Open University, Nagaland India / Faculty of Science First Division.
- ❖ **2008-2009: Post-Graduate Diploma(Remote Sensing & GIS):** Banaras Hindu University (B.H.U), Uttar Pradesh, India / Faculty of Science with A+ Grade.
- ❖ **2005-2008: Graduation. (Geography HONS.):** Banaras Hindu University (B.H.U), Uttar Pradesh, India, with second Division.
- ❖ **2005: Diplomain Computer Application:** Viswa Computer Saksharta Mission, Varanasi Branch. Varanasi, Uttar Pradesh, India.

Academic Projects

During: - P. G. Diploma in Remote Sensing and GIS,

Project: - Village Information System: Mirzapur District, Uttar Pradesh. INDIA. And Landuse/Land Cover mapping and Change analysis, of Ara District (focusing Scarcity of Water)

Roles and Responsibility: - Base Map Preparation, Land-use, Land-cover Data base creation&Socio-Economic Data collection through field survey with GPS and change analysis.

Objective: - To prepare utility mapping for village with cadastral level information for future plans and how to solve synchronization of Water Body problem.

Achievement

- ❖ Founder of NGO “BhuSanrakshnam”.
- ❖ Employee of the month ‘December 09’ in InfoTech Enterprises Ltd.
- ❖ Got 240 Hours Social Service Certificate from NSS, BHU Varanasi.
- ❖ Having Flying Experience of Micro Light Aircraft, in 3 years [B] Certificate Course in 7 UP Air SQN. NCC from Banaras Hindu University, Uttar Pradesh, INDIA.

Personal Details

Father Name : Shri Krishna Kumar Tiwari
Mother Name : Smt. Rasmuna Devi.
Date of Birth : 20 Feb 1986
Material Status: Married
Gender : Male
Nationality : Indian
Date: : November 2020
Place: : Nava Raipur Atal Nagar, CG

(Pawan Kumar Tiwari)

Reference

Dr.R K Mehajan (Scientist G)

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Science & Engineering Research Board (SERB)
Department of Science and technology (DST)
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Mr. S. K SHRIMALI

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