

Profile – Manish Saxena

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Qualifications:

- Masters of Computer Application (MCA) (1995) – Madhav Institute of Technology and Science-MITS, Jiwaji University, Gwalior
- B.Sc. Physics(Hons) & Computer Science (1992) – AMU – a central university

Experience:

30 years in ICT and eGov application development, implementation, project management in Agriculture, Finance and Logistics domains both in government and corporate sector.

- 25+ years in development of multiple ICT platforms in Agriculture and allied sector: Financing Infra, Procurement, Inventory, Trading, Sales and Marketing - Wholesale and Retail, Warehousing, Logistics etc. of Agri commodities, Govt. schemes implementation.
- **10 years of experience in Government of India** in development of major IT applications of **Ministry of Agriculture & Farmers Welfare** and allied ministries.
- **14 years of overseas** experience in development and implementation of major IT applications, mostly in Agriculture, Supply Chain and Banking domain.

Major Achievement: Technical Lead in development and nationwide implementation of ICT platform of major flagship schemes of Government of India including Agriculture Infrastructure Fund (AIF), National Agriculture Market (eNAM), National Mission on Natural Farming - all of which launch by Hon'ble Prime Minister of India. Experienced/Involved in lead role in development and implementation of over 80 portals of various schemes of Government of India in Agri and allied sector.

Strengths: Program and Project management and Lead, robust architecture – Solution Arch, Application Arch, Infra Arch, database arch, strong analytical skill, design, development, integration and Implementation, Team management, Vendor Management, RFP and proposals, IT advisories, Rapid delivery. Multi tasking – managing 60 IT initiatives at a time.

Committees: Member of various committees of Ministry of Agriculture and Farmers Welfare, Government of India for selection and evaluation of vendor for various IT projects. Attached with Supreme Court Committee on farm laws.

Recognitions: Multiple appreciation letters from office of Hon'ble Union Cabinet Minister of Agriculture - GoI, many Joint Secretary to Govt. of India, High level Supreme Court Committee for the quality and speedy delivery of IT systems of multiple schemes of GoI.

Summary:

Senior Consultant (ICT) at Ministry of Agriculture & Farmers Welfare, GoI (April 2024 – till date) and (Feb 2020- Sep 2023) (through NABARD Consultancy Services, GoI) across various divisions of DA&FW

- Centralized Crop Residue Management Portal of Government – Design, Architecture and Development of comprehensive unified central portal for all concerned ministries, organizations, PSUs of central and state government undertaken on the directions of Hon'ble Supreme Court of India in view of health hazard in north India due to pollution caused by stubble burning for Crop Residue Management and management of Paddy Straw. Coordination with various ministries, organizations, state government for convergence, onboarding, data migration, scheme info and integration of other IT system with central portal. Support the Inter Ministerial Committee with all IT services.
- Krishi Nivesh Portal – Leading the development of centralized one stop portal to manage all agri related investments including the projects under PPP.(Funded by BMGF). Launched by Hon'ble Union Agriculture Minister in September 2024.
- Leading the development and implementation of Agriculture Infrastructure Fund (AIF) Solution of flagship scheme under Atma Nirbhar Bharat of Rs 1 Lakh Cr of Govt of India. (<https://agriinfra.dac.gov.in/>). Requirement, Design, Architecture, development, implementation. Integration of AIF with multiple schemes/portal of Central and State government for convergence – Only portal of Department to be nominated for PM Award for excellence in Innovation. One of the best software of the department being full computerized, paper less, real time, transparent facilitating lodging loan applications from beneficiary, sanction by banks, disbursement, real time monitoring for each stakeholder including about 1 Lakh bank branches.
- Development of Unified Agri Infra Funding Portal with inclusion of AIF, Agricultural Marketing Infrastructure and National Horticulture Board schemes of GoI.
- Agricultural Marketing Infrastructure – Rapid development of portal for complete digitization of workflow to apply, sanction and release of subsidy under AMI scheme.
- PM Gatishakti National Master Plan – Mapping of all Agri Infrastructures and clusters on GIS based platform. API integration of AIF scheme. Technical lead of PM Gatishakti cell of the department.
- Development and implementation of IT system for rapid geo tagging of assets under AIF, ACABC and other schemes.
- Managing development and implementation of multiple projects of various divisions of DA&FW (MoA&FW) as the Lead – Integrated Application Development Cell of the department. 65 IT applications/initiatives of over 15 divisions of DA&FW are being managed currently – Digital Agriculture, Credits, Investment, Extension, Mechanization and Technology, Administration, Plant Protection, Seeds, Directorate of Economics and Statistics, Agriculture Scientist Recruitment Board.
- Resource Management: Team formation, selection/recruitment, Lead, Project management, supervision and mentoring, vendor management to about 70 IT resources at Ministry of Agriculture.
- Expert advisories and Application development to over 8 attached offices/directorates/board under Ministry of Agriculture, GoI.
- India Vision@2047 – Providing inputs on Digital Agriculture/IT on government's blueprint to transform India into a developed nation by 2047 – a project of NITI Aayog – the Apex policy think tank of India
- Digital Agriculture - Involvement in New IT Initiative in Agriculture
 - Digital Agriculture Mission and Agri stack
 - IDEA – Blueprint for Enterprise Framework in Agriculture
 - National Farmers Database and UFSP (Unified Farmers Service Platform)
 - Agri Drone Mission

- Evaluation of Proposals for Funding to States for Digital Agriculture Projects (new NeGPA)
- Managing the Data Governance Quality Index – A initiative by NITI Aayog for scoring and standardizing all the IT applications of DA&FW and attached offices.
- Portal and data analysis for Supreme Court Committee on Farm Laws (<https://farmer.gov.in/sccommittee/>)
- Managing development of IT applications of Ministry of Cooperation.
- Leading new development of Applications of Plant Quarantine Management System and Computerized Registration of Pesticides of Plant Protection Division and Maintenance of existing Plant Quarantine Information System and Computerized Registration of Pesticides applications of Plant Protection Division.
- Market Information and Intelligence System – AI based comprehensive portal on market intelligence with integration on area, production estimates, market price, weather, export/import, international trend, satellite images etc
- National Infrastructure Pipeline – Management, updation and monitoring of all the agri infrastructure at central level.
- Development and implementation of Non-Official Appointment System to be used by all the miniseries of Government of India.
- Digital Learning Platform for Farmers – To educate the farmers on Good Agriculture Practices, Awareness of schemes of central and state government etc.
- PMAASHA – Architecture of Centralized Procurement Portal to capture, manage and monitor procurement under various schemes
- Agri Massmedia Portal – Development of National portal for storage and management of all authentic agri related mass media including videos, audio, slide show etc.
- Development and Implementation of portal on Cleanliness Drive and File management the department.
- Involved in inter ministerial meeting on Ranking of States on DBT performance by DBT Mission, Ministry of Finance.
- Development and maintenance mKisan SMS Gateway for Advisories to Farmers (<https://mkisan.gov.in/>) and sending advisories to over 10 Cr farmers.
- Development of Websites/Applications of various Division of DAC&FW: Food Systems Summit (<https://farmer.gov.in/fss/index.aspx>), Agri Invest India (<http://agriinvest.dac.gov.in/>), DAC&FW GeM Procurement listing, DACFW eSamiksha, NGO Darpan portal, Indian Agriculture Outlook Forum and Maintenance of KKMS (<https://dackkms.gov.in/>), farmers portal (<https://farmer.gov.in/>), SAP, Agricoop website (NIC) (<https://agricoop.nic.in/>).
- Development and enhancement of Mobile Apps - Kisan Suvidha Mobile App, AIF, FARMS- for custom hiring of farm machineries.
- Technologies – Varied - .NET, MVC Java, React, Angular, SQL Server, PostgreSQL, MySQL, Web, Windows, Mobile Apps etc.

Management of IT Infrastructure of MoA and IT Support Services

- Management of NeGPA Hosting Infrastructure co-located at NIC Data Center
- Management of Security Audit of all the Applications of DAC&FW and attached offices.

- Technical Management of VCs of Minister/ PM/ Senior Officers/ International VC – SPOC from MoA for management of various international forums like G20, BRICS, SCO, FAO etc.
- Technical management of PM events like Vibrant Gujarat, PMKISAN releases, Summits etc and other events of Hon'ble Union Ministers
- Facilitating VPN Access to facilitate Work from Home to 400+ officers during lockdown in Covid-19 pandemic

IT Specialist at NABARD (National Bank for Agriculture and Rural Development, Ministry of Finance, GoI) (September' 23- April' 24)

- Managing development and implementation of multiple IT projects for Department of Strategic Planning and Product Innovations, Department of Data Management, Analytics and Business Intelligence, Department of Refinance as the Lead. Leading the development of master portal for Interest Subvention and Credit Guarantee fee claims for AIF and other schemes, Direct Benefit Transfer to Self Help Group, Kisan Credit Card, NABARD Data Warehouse – AI based tool for NDWH, Loan Management System, Subsidy claims under AMI scheme of MoA – Digitization of Loan Application and Processing etc.

Project Manager - National Informatics Centre (NIC), Ministry of Electronics and Information Technology, Govt. of India (2018-2019)

Reporting to Deputy Director General, HOG/HOD (NIC). Project Managing for various ICT Applications/initiatives managed by NIC for entire Agriculture sector across different ministries/departments:

Ministry of Agriculture and Farmer's Welfare:

- Proposal and architecture for Strengthening of NeGPA infrastructure co-located at NIC Data centre at New Delhi
- Development of Pradhan Mantri Kisan Samman Nidhi (PM-KISAN) portal (<https://pmkisan.gov.in/>).
- Preparation of concept notes and project proposals for new initiatives submitted by NIC to DAC&FW:
 - Centralized Farmers Database
 - Adoption of new technologies in Agriculture- AI, Blockchain, IoT, Robotics, Drones, Big Data, Analytical Dashboards and Mobile Apps
 - Open Data Platform in Agriculture
 - Blueprint on ICT in Agriculture
 - Real Time Information System in Agriculture
 - Soil Health Card for Cambodia under MoU between the two countries
- Project Plan, Manpower Proposal and Costing for all the Applications of Ministry of Agriculture, Fertilizers, Water Resource, Animal Husbandry managed by NIC DAC&FW including SHC, Seeds, Farm Mechanization, DBT in Agriculture, CHC Mobile App, Applications under NeGPA, ATMA, ACABC, FARMAP-Cost of Cultivation etc.

Department of Fertilizers:

- Integrated Fertilizer Management System (iFMS) – Fertilizers Supply Chain Solution
- DBT in Fertilizers

- Preparation of proposal for Blockchain in Fertilizer Supply Chain

Ministry of Jal Shakti (Water Resources):

Reporting of Pradhan Mantri Krishi Sinchai Yojana (PMKSY) which includes Accelerated Irrigation Benefit Program (AIBP) and Command Area Development & Water Management, NOC for Extraction of Ground Water (NOCAP) etc.

Ministry of Fisheries, Animal Husbandry and Dairying:

National Animal Disease Reporting System (NADRS) for Prevention and Control of Infectious and Contagious diseases of animals, Real CRAFT, Sanitary Import Permit(SIP), Tablet based Livestock Census

IT Expert - National Agriculture Market (NAM): PMU, Small Farmers Agribusiness Consortium (SFAC), Ministry of Agriculture and Farmers Welfare (2015-2018) (<https://www.enam.gov.in/>)

- Technical Lead for development, requirement analysis, design, architecture, implementation of eNAM solution across the country.
- Lone technical resource from Government until implementation in 421 markets.
- RFP, Vendor Management, SLA, Evaluation, Payments to Vendor, SRS/FRS
- Infrastructure architecture, coordination with NIC for hosting on NIC Meghraj cloud.
- Intensive communication with Ministry officials for implementation of scheme
- Event management: launch by Hon'ble Prime Minister of India and for promotion and awareness of eNAM.
- Involvement with other schemes of SFAC - Farmers Producers Organization, Venture Capital Assistance, Equity Grant and Credit Guarantee Fund

Other Major Projects:

Senior Manager- MIS: TMB Bank, Bangkok, Thailand (2014)

Commercial Campaign Management System for SME Banking – Development of Predictive Analytics Model for Marketing Division to create Clustering, Cross sell, Up sell, Market Basket Analysis and Churn Model for commercial customers to raise revenue.

Senior Consultant, Sumax Technologies (2012-13)

Development of Embedded System, Micro controller based devices, IoT, Software driver and associate IT Applications.

Senior Consultant, Rumah Sakit Islam, Kalimantan, Indonesia (2010-2011)

Development of Hospital Management System

Team Leader, Woolworths Ltd., Sydney, Australia (1997-2009)

Woolworths is biggest company of Australia and among the top retailer in the world having state of the art in-house developed IT Systems having 1000+ supermarkets, liquor, petrol and merchandise Stores across Australia and New Zealand. 12 years of Strong experience in Application development of wide range of softwares for Supply Chain for marketing and complete movement of goods from procurement, warehousing, logistics and sale to end consumers. The product range includes agro produce - perishable and non perishable, meat, dairy, bakery, FMCG, Liquor, Petrol etc.. The solution includes In Stores system – Sales and inventory replenishment, Central Host System, Warehousing, Logistics, Procurements and corporate web and ERP systems like payroll etc.

Software Engineer: Solace Retail Banking System, Solace Technologies, Melbourne, Australia (1997)

Development of IT Application for complete range of lending, deposit and investment banking function including ATM access and insurance processing as well as extensive management reporting tools.

Software Engineer, Integrated Milk Procurement, Logistics and Accounting System, Hindustan Unilever Limited, JK Technosoft, New Delhi (1996-1997)

Onsite development of Integrated Milk Procurement System, Milk Logistics and Supply System and Accounting System for procuring milk from farmers to production of Anik Spray milk powder at their only plant in India at Etah, UP.

Development of Point of Sale (PoS) System at JK Technosoft, New Delhi (1996)