

Public Work Department Computerization



Government Department

Roads and Buildings Dept., Gujarat Government

Solution Category:

- eGov Application Development Services

Industry Sector:

- Government Sector

Software/Platform:

- .Net
- Java
- PHP
- Python
- JavaScript
- C++

Profile

For any civilization, roads pave the way to growth. R&B Department is incharge of all activities pertaining to Planning, Construction and Maintenance of all categories of Roads and all Government owned Buildings in the State of Gujarat. These activities constitute a vital component of developmental work in the State.

The office of the Secretary and the Chief Engineers are based in the Sachivalaya at Gandhinagar. Besides this, there are also many HODs like GSRDC, Parks and Gardens Division, GERI, Design Circle, Town Planning and the Staff Training College located in Gandhinagar. The CE office has Circle Offices, Division Offices, Subdivision Offices and Section offices under them.

Need

Roads & Buildings dept. of Gujarat had a large no. of offices remotely spread across the state of Gujarat. Their core functionality is to monitor the various government works/projects going on across the state.

Besides this, they also perform other activities like contractor's registrations, managing the Schedule of Rates (SOR), managing the govt. machines and vehicles across the state, keeping track of the R&B assets, maintaining govt. houses and quarters and managing their occupancy and rent, managing the Staff Training College, Quality Control of the works, Managing Budgets and Grants, etc.

Roads & Buildings dept. wanted an integrated application to streamline their processes, bring-in more transparency, obtain reports and information on the fly, obtain more detailed and integrated information or summarized information without an extra effort, generate dashboards etc. and thus allow the department to function effectively and smoothly.

Digitizing the Functions of Roads & Buildings Department, Gujarat Government



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Challenge

- Though gathering the requirements was not a challenge, conceptualizing the application was a big challenge since it required the senior bureaucracy to align their vision
- The second major challenge included providing training to the personnel across the state since different modules would have separate users and would be spread across many offices
- The third biggest challenge was User Acceptance since the users had varied profiles

Scope

- Monitor the ongoing project work
- Maintain the Schedule of Rates on a YoY basis
- Manage the Contractors details
- Create an archive of the all the various Roads, buildings and bridges across the state
- Keep details of the Machines and Vehicles including their purchase, maintenance, usage and disposal
- Keep track of the all the houses and their rent collection
- Keep log of the Quality Circle activities
- Maintain details regarding the Staff Training College
- Maintain the Traffic Count data

Solution

- Work Monitoring System
- Schedule of Rates (SOR)
- Contractors Registration
- Inventory of Roads, Buildings and Bridges
- Manage Machines and Vehicles
- Manage House Allocation and Rent

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- Manage Budgets
- Manage Quality Checking activities
- Manage the Staff Training College
- Maintain the Traffic Count data
- The following platforms were used to develop these applications:
- Windows Server
- ASP
- MS-SQL

Methodologies and Activities largely used by us:

- Prototyping and approvals
- Presentations to align expectations
- Testing at various stages
- End user training
- Hand-holding during and after go-live

Benefits

- Since the application provides information online, it is easily available and the effort to compile the information on a day-to-day basis is reduced drastically.
- The works monitoring system helps to obtain the project data on the fly thus leading to more efficient and effective decisions.
- Work can be easily monitored Physically and Financially against progress
- The Secretary as well as each CE, SE and XN is able to get a bird's eye-view of their information by using dashboards allowing them to take quick and accurate decisions