

# Record Challan (RGP/NRGP)

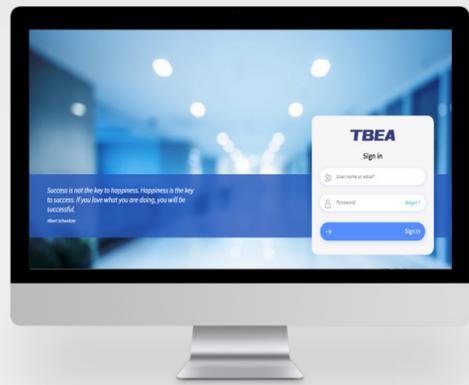
## Project Summary

Megh Technologies designed and developed a Record Challan (RGP/NRGP) web application for TBEA and GE to digitalize and streamline the process of managing Returnable and Non-Returnable Gate Passes. The system replaces manual registers with a structured digital workflow that ensures accountability, approval traceability, and real-time monitoring. The application is built using .NET MVC and SQL Server, with multi-level approvals and comprehensive reporting features.

## Application Details and Features

This application enables users to efficiently create, track, and manage challans for material movement within and outside the organization. It supports configurable approval hierarchies, automated notifications, and real-time dashboards to improve operational transparency and compliance.

- Create and manage **RGP (Returnable Gate Pass)** and **NRGP (Non-Returnable Gate Pass)** records.
- **Approval workflow** based on user role and department hierarchy.
- **Email notifications** at each approval and completion stage.
- **Search and filter** challans by date, department, requester, and material type.
- **Auto-numbering and document control** for each gate pass.
- **Dashboard and MIS reports** for tracking open, pending, and completed challans.
- **Export to Excel/PDF** for audit and review purposes.
- **Multi-level access control** for requesters, approvers, and administrators.
- **Integrated return tracking** for RGP items, with alerts for overdue returns.
- **Secure login** and user-based permissions with audit logs.
- Mobile-friendly responsive design for access from anywhere.



## Challenge

Before this application, the process for material movement was manual and paper-based, leading to:

- Difficulty in tracking returned materials and pending challans.
- Lack of visibility into approval status across departments.
- Delays in processing due to physical approvals.
- No centralized repository for records and MIS reporting
- Risk of data mismatch and human errors in material movement entries.

## Solution

Megh Technologies implemented a robust .NET MVC based web application that automates the entire RGP/NRGP lifecycle—from creation to approval to closure.

- The application features a configurable approval hierarchy, email notifications, and MIS reports.
- Data validation and audit trails ensure reliability and accountability.
- The solution integrates with existing ERP systems where required for master synchronization.
- Custom dashboards provide quick insights into material flow, approval delays, and return compliance.

## Conclusion

The Record Challan (RGP/NRGP) application has significantly enhanced visibility and control over material movement for TBEA and GE. The digital workflow reduced manual errors, improved approval turnaround time, and ensured timely material returns. With its intuitive interface, automated approvals, and insightful reports, the system now serves as a reliable, audit-compliant, and scalable digital backbone for gate pass management.

## Technology Used

- .NET MVC Framework
- SQL Server Database
- HTML5, CSS3, jQuery
- Responsive and Role-based UI

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