

Success Story

1. **Title** - Construction of Major Bridge on S.H.140 to Sonagaon Kumthe Asangaon road M.D.R.31 Km.1/050 Tal. Satara Dist.Satara. (Nabard 27) Transformation of Rural Connectivity through Major Bridge Urmodi River near Shelkewadi Tal. & Dist.Satara.

2. Background / Problem Statement:-

Prior to the execution of this project, the region surrounding Shelkewadi village faced significant infrastructural challenges, primarily due to the absence of a safe and reliable bridge across the Urmodi River. The river, characterized by a large catchment area, experiences heavy discharge during the monsoon season owing to releases from the Urmodi Dam.

The existing low-level and narrow submersible crossing was frequently submerged during monsoon months, severely disrupting vehicular movement and posing serious risks to public safety. These conditions adversely affected daily commuting, economic activities, and access to essential services.

Key Issues Identified:

- Deteriorated and inadequate road infrastructure
- Difficulty in crossing the river, especially during monsoon
- High risk to life due to flooding and unsafe crossings
- Restricted access to sugar factories, M.I.D.C. areas, healthcare facilities, and markets
- Regular disruption of transportation affecting farmers, students, and local residents

The situation necessitated the construction of a permanent, high-level bridge to ensure safe, reliable, and all-weather connectivity, thereby fostering inclusive regional development.

3. Project Overview :-

Construction of Major Bridge on S.H.140 to Sonagaon Kumthe Asangaon road M.D.R.31 Km.1/050 Tal. Satara Dist.Satara. (Nabard 27)

- Location Urmodi River near Shelkewadi Village, Tal. and Dist.Satara
- Implementing Agency - Public Works Department
- Project Cost - Rs.7.31 Crore
- Time Period - 18 Months
- Funding Source State Government NABARD Loan Assistance
- Bridge Length 85.70 m. (2 Span of 13.06 m. & 5 Span of 11.83 m.)
- Bridge Carriageway Width - 7.50 m
- High Level Major Bridge
- Open Foundation, Pier and Abutment, Precast Lethal Arch Bridge. Expansion joint, RCC Anti Crash Barrier.

4. Challenges Faced :-

During the execution of project encountered some challenges:

- Construction activities were significantly affected during the monsoon due to high river discharge.
- Coordination was required among multiple departments for shifting and protection of utilities.
- Encroachments within the riverbed posed challenges during execution.
- Maintaining construction timelines under adverse weather conditions required meticulous planning.

5. Innovative Solutions / Action Taken:-

To address these challenges, the following measure was taken:-

- Adoption of advanced bridge construction technologies and modern execution methodologies.
- Deployment of high-capacity cranes and concrete pumps to accelerate construction.
- Continuous engagement with local communities to build trust and ensure cooperation.
- Use of high-quality, durable materials strictly in accordance with Standard Schedule of Rates (SSR).
- Implementation of comprehensive road safety measures, including signage, reflective boards, thermoplastic road markings, and protective pitching.

6. Implementation Process:-

- Planning: Detailed site investigations, technical approvals, and structured scheduling.
- Execution: Mechanized construction with strict adherence to approved timelines.
- Monitoring: Regular inspections and progress reviews to ensure quality and efficiency.
- Quality Control: Systematic testing of materials and compliance with prescribed standards.

7. Result & Impact :-

The project has delivered substantial and measurable benefits:

- Reduction in travel time by approximately 50%
- Improved connectivity between Shelkewadi, Asangaon, Bhatmarali, and surrounding villages
- Enhanced safety and uninterrupted access during monsoon seasons
- Improved access to educational institutions, healthcare facilities, markets, and industrial areas
- Strengthened local economy through improved transportation and trade
- Enhanced overall riding comfort and road safety

8. Beneficiary Feedback/Human Angle:

“The newly constructed bridge has significantly improved our daily lives. Access to N.H.4 and nearby sugar factories has become smooth and reliable. The reduction in travel distance and risk has brought tremendous relief to our community.”.

9. Conclusion:

The construction of the Major Bridge across the Urmodi River at Shelkewadi stands as a noteworthy example of effective infrastructure development. The project has successfully addressed long-standing connectivity challenges, enhanced public safety, and contributed to sustainable socio-economic growth. Its successful execution demonstrates a replicable model for rural and semi-urban infrastructure development across the region.



