

Success Story Of

Construction of Major Bridge High level Submersible Bridge on Karemaka Approach Road VR-136 at ch-0/600 in Taluka Dhanora District Gadchiroli

(NABARD XXIII)

Region- Public Works Region, Nagpur

Circle- Public Works Circle, Gadchiroli

Division- Public Works No-II, Gadchiroli

Sub-division- Public Works Subdivision, Dhanora(S)



1. Background / Problem Statement

The Local Nallah intersects the Karemaka Road to join NH-930 at Dhawali Village which is 7.00km away from Dhanora Taluka. Unbridged creating a critical gap in Naxalite and tribal area connectivity that hindered the transport of milk, agricultural product, Banking Services, the daily commute of school students and effects life style of tribal peoples.

To resolve this, a Bridge of 60.00 meters length was sanctioned under NABARD 23, and construction of bridge cum bandhara 6 span of 10.00 m c/c and a width of 7.5 m with 12 arches of 5.0 mt having height of bandhara 2.40mt . It serves dual purposes i.e. crossing the river and also to create limited water storage. Such structure have been used to tap post monsoon flow to create storage not exceeding 3.50 m. There is urgent need of time to save and utilise the after monsoon water that would have been flown away.

This Project was successfully completed on January 2020. From an engineering perspective, the structure provides durable and safe passage across the local nallah, ensuring stability and adequate width for local traffic. From a community standpoint, the bridge has transformed mobility by enabling direct access to market yards, supporting agricultural livelihoods, and providing reliable connectivity for students, thereby strengthening rural infrastructure and contributing to the socio-economic development of Dhanora Taluka.

2. Project Overview :-

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- ❖ Location Local Nallah near Karemaka Village, Tal. Dhanora and Dist. Gadchiroli.
- ❖ Implementing Agency - Public Works Department.
- ❖ Project Cost - Rs. 437.25 Lakhs.
- ❖ Time Period - 12 Months.
- ❖ Funding Source State Government NABARD Loan Assistance.
- ❖ Bridge Length 60.00 m. (6 Span of 10.00 m.).
- ❖ Bridge Carriageway Width - 7.50 m.
- ❖ High Level Submersible Major Bridge.
- ❖ Raft Foundation for Pier and Pile foundation for Abutment, Pier Cap, Pile Cap, Slab, Kerb, wearing Coat, Railing, B.T.Approach Road. Expansion joint, Thermoplastic Paint.

3. Challenge Faced: -

During the execution of project encountered some challenges:

- ❖ Encroachments within the riverbed posed challenges during execution.
- ❖ Due to heavy traffic , it was a Challenging to maintain diversion and execution of Work within specified time period.

4. Innovative Solutions / Action Taken: -

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

- ❖ Adoption of advanced bridge construction technologies and modern

execution methodologies.

- ❖ Construction of Bridge cum Bandhara serves dual purposes i.e. crossing the river and also to create limited water storage.
- ❖ There is urgent need of time to save and utilise the after monsoon water that would have been flown away hence Bridge cum Bandhara is Constructed.
- ❖ 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.

5. 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.

6. Result & Impact: -

The project has delivered substantial and measurable benefits:

- ❖ Reduction in travel time by approximately 80%.
- ❖ Improved connectivity between Karemarka, Dhawali, Yerkad, Murumgaon Villages.
- ❖ Enhanced safety and uninterrupted access during monsoon seasons.
- ❖ Improved access to educational institutions, healthcare facilities, markets, and industrial areas, Banking Services.
- ❖ Strengthened local economy through improved transportation and trade.
- ❖ Enhanced overall riding comfort and road safety.
- ❖ Due to BCB, water table level is increased.
- ❖ Due to BCB, nearby villages water pond can be recharged.

7. Beneficiary Feedback/Human Angle: -

“The newly constructed bridge cum Bandhara has significantly improved & Trible people daily lives. Access to NH 930 and nearby Dhanora & Gadchiroli Taluka level Market has become smooth and reliable. The reduction in travel distance and risk has brought tremendous relief to our community.”

8. Conclusion : -

The construction of the Major Bridge across the Local Nallah at Dhawali Village stands as an example of effective infrastructure development. The project has successfully addressed long-standing connectivity challenges, enhanced public safety, contributed to sustainable socio-economic growth, reliable connectivity for students and supporting agricultural livelihoods. Its successful execution demonstrates a replicable model for Trible, Naxalite and rural infrastructure development in Dhanora Taluka.





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Thank You