

Rapid Repair of “SOGTHI” Dam Amidst Heavy Rainfall: Successfully Completed



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BEFORE



AFTER

SOGTHI DAM Rapid Repaired GUJARAT (INDIA)

IRRIGATION DEPARTMENT

DATE: 22/07/2024

PRODUCTS USED

- REDBRAWN 671- SUPER PLASTICIZER
- BUTABOND SBR- BONDING AGENT
- REDWOP CA 94-ACCELATOR ADMIXTURE

On July 20, 2024, the Sogthi Dam experienced significant damage on its backside due to heavy rainfall in the upper regions. The dam was overflowing, and continuous rain prevented any immediate repair efforts. The Gabdu, measuring 50 to 60 cubic meters, were compromised, causing internal jet leakage within the dam structure.

Mr. Ravi Akabari, the Executive Engineer of the Panchayat Irrigation Division, contacted the REDWOP Technical Team, emphasizing the urgency of the situation. Although halting the rain was impossible, the overflow could be diverted to the canal portion. The irrigation department specified that the repair concrete must bond with the existing structure, harden within two hours, and resist washout despite ongoing rain.

REDWOP accepted the challenge and commenced trials in our laboratories, achieving success. We informed the department that the repair could be accomplished using our admixtures: REDBRAWN 671 (0.8% of cement) for retention, Butabond SBR (2% of cement) for bonding old to new concrete, and REDWOP CA 94 (5% of cement) to accelerate concrete setting within 1 to 2 hours.

Approximately 55 cubic meters of concrete were utilized for the repair, which was completed within 36 hours.

We extend our gratitude to the administrative staff, including Er. Ravi Akabari, Er. M.P. Bhatia, Er. Narendra Gagiya, Er. Vivek Jethva, and Er. Jaydip Badiavadara. Special thanks to Amidhara Construction for their dedicated execution of the work and Shriji Concrete for supplying the required concrete.



REDBRAWN 671- SUPER PLASTICIZER



BUTABOND SBR-BONDING AGENT



REDWOP CA 94 - ACCELATOR ADMIXTURE