

## GA Infra Private Limited

**Place of Implementation:**

Jaipur Rajasthan

**Agency/ Company:**

GA Infra Private Limited, Jaipur, Rajasthan

**Year of Implementation:**

2023-2024

**About the Initiative:**

The Bisalpur Jaipur Water Supply Project (BJWSP) represents a strategic initiative aimed at revolutionizing the water supply dynamics in the region. It is meticulously engineered to alleviate Jaipur's overreliance on groundwater resources by harnessing the potential of the existing Bisalpur Dam headwork. The heart of this undertaking lies in the transformation of the central transfer main, a pivotal artery of water distribution, with the overarching goal of





enhancing the water supply to the historic walled city. Furthermore, the project envisions the expansion of water accessibility to areas like Amer, Jaisinghpura Khor, and their adjoining vicinities. These steps are imperative to address the prevailing water supply limitations from Ramniwas Bagh to the walled city, and to facilitate the extension of the Bisalpur System into previously unserved territories. This innovative addition will further bolster the project's capacity and resilience, marking a significant milestone in the city's journey towards a sustainable and dependable water supply system.

#### Key Features:

- In the case of the pipeline network, we have successfully laid approximately 14,987 meters of MS pipeline and 2,903 meters of DI pipeline.
- Our strategy includes inner and outer coating of pipes, which is expected to extend the lifespan of these pipelines to 35 years.
- MS pipelines, additional corrosion protection measures have been implemented, encompassing both external surface coatings and internal lining.
- 13.4MLD Capacity CWR has been built.
- The project is following the drinking water quality protocols.

- Its primary goal is to optimize and expand the existing water supply network to meet the water demand projected until 2051, based on population estimates

**Outcomes:**

The commencement of the water supply process in this project is currently pending, as we have not reached the implementation stage. However, it's important to highlight that, during the pipeline installation phase, we meticulously executed measures to minimize conveyance losses. This ensures that the system is well-prepared for efficient water supply once the implementation stage is initiated. The commissioning of the project is scheduled to be completed within two months. Moreover, we have applied for consideration in the "Water for All" category, as this project is a significant milestone for the Government of Rajasthan. Its primary objective is to optimize and expand the existing water supply network, addressing the water demand projected until 2051 based on population estimates.

**Sustainability Measure:**

Within the installed infrastructure, the critical components that significantly influence the project's sustainability are

the pipeline network and the Current Water Reservoir (CWR). In the case of the pipeline network, we have successfully laid approximately 14,987 meters of MS pipeline and 2,903 meters of DI pipeline. Committed to adhering to industry standards, we have meticulously followed the guidelines of the Indian Standards (IS). Our strategy includes inner and outer coating of pipes, which is expected to extend the lifespan of these pipelines to 35 years. For MS pipelines, additional corrosion protection measures have been implemented, encompassing both external surface coatings and internal lining. A noteworthy approach we've adopted for ensuring the infrastructure's sustainability is in relation to the CWR. While the initially proposed CWR had a capacity of 11 million liters per day (MLD), we recognized the necessity of maintaining a 100mm dead storage within the reservoir. To address this, we presented a solution to the department, recommending an increase in capacity to 13.4 MLD. This solution has been duly approved, further fortifying the project's ability to meet future water demands effectively and sustainably.