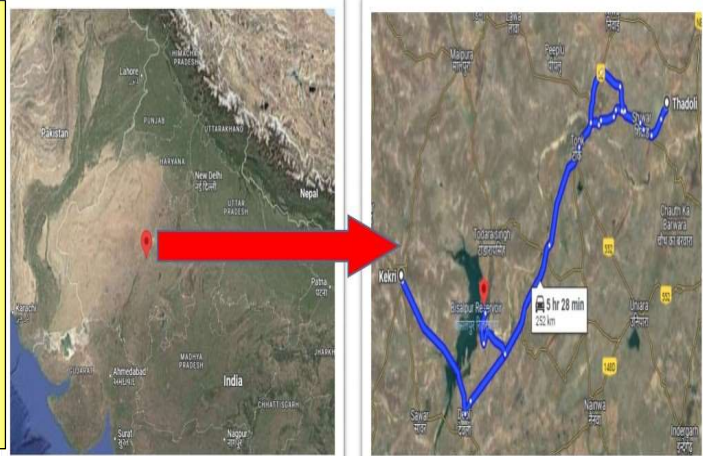




CENTRAL WATER AND POWER RESEARCH STATION

ON-SITE CALIBRATION OF FLOWMETERS AT AJMER, RAJASTHAN FOR M/S NS INSTRUMENTS AND CONTROLS, NEW DELHI



STUDY OVERVIEW

Calibration of three Flowmeters installed at site by secondary method of calibration using pre-calibrated Clamp-on type Ultrasonic Flowmeter of CWPRS.

APPROACH

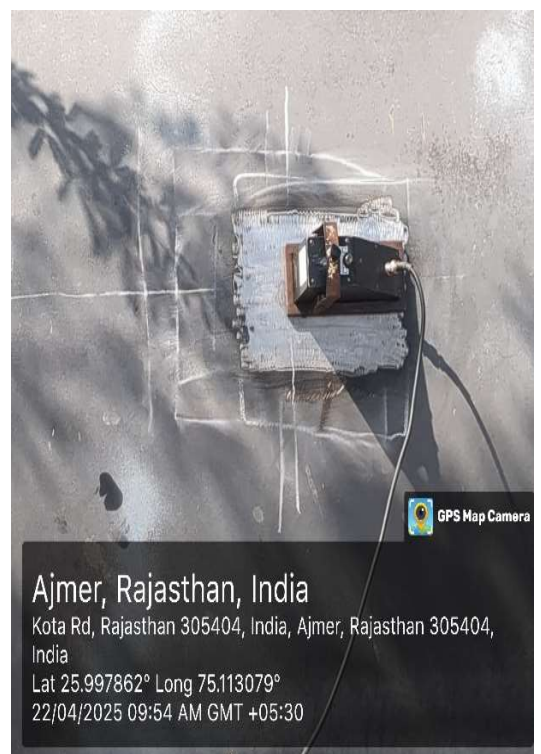
- A clamp on type pre calibrated ultrasonic flowmeter (CWPRS Flowmeter) be installed on the pipeline at appropriate measurement locations, meeting standard upstream & downstream requirements.
- Flow rate will be measured simultaneously by reference flowmeter of CWPRS and existing flowmeters installed at site.
- Percentage deviation of the flow rate indicated by flowmeters installed at site will be evaluated based on the data collected.

KEY FINDINGS

- Flow deviation in Flowmeter installed on pipeline at Bisalpur Pump House is -11.448%
- Flow deviation in Flowmeter installed on pipeline at Thadoli Pump House is -0.109%
- Flow deviation in Flowmeter installed on pipeline at Kekri Pump House is +0.431%

IMPACT/SIGNIFICANCE/OUTCOME

The study concludes a scope for improvement in water distribution network and energy savings by incorporating proper repair, maintenance, renovation & modernisation of the entire systems.



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