



GENERAL

The municipality of Ajmer in India has placed an order with Arya Communications & Electronics Services Pvt., Motorola's distributor in India, for the supply of an advanced integrated control and radio communication system for their pumping stations and filtration plant.

The new system, based on Motorola's sophisticated MOSCAD RTU, monitors and controls 5 pumping stations over 105 km of large water pipeline, and one filtration plant.

MOSCAD & MDLC

In this project, the MOSCAD RTU is used to control and monitor pumping stations, transmitting pressure, level, flow information and pump status to the Master Control Center and Subsidiary Control Centers.

The MDLC communication is implemented over one frequency in the VHF band (136-174 MHz).

Using MDLC protocol, based on ISO/OSI seven layers reference model, ensures efficient and reliable data communication.

SYSTEM OVERVIEW

The system comprises one Master Control Center (MCC) located at Ajmer Administrative Office, and two Subsidiary Control Centers (SCC) located at Kekri Filtration Plant and at Nashirabad Pumping Station.

The control centers are based on FIX DMACS GUI software package from Intellution in a Windows environment.

CAPACITY & FUTURE EXPANSION

The first stage of this project includes six MOSCAD RTUs, two subsidiary control centers, and one MOSCAD FIU at Ajmer control center.

The system will be expanded to include additional stations and measure quality parameters including ph, turbidity and residual chlorine. The MOSCAD RTU will be there to transfer this data in a reliable manner. □

FEATURES	BENEFITS
MDLC communication protocol	Optimized, efficient, and reliable data communication for more effective water supply and management
Multi-protocol processor based on Motorola 68302	Allows multi-tasking operation with on-line network monitoring, traffic analysis, on-line diagnostics, remote monitoring and error logging
Upload/download capability	Application program can be easily changed or modified and downloaded to the RTUs in the field
Remote diagnostics	Permits maintenance staff to identify and correct problems at the RTUs from any site in the system

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