

Qatar Mega Reservoirs - China

Water Security/Water Transmission Lines

Project Type: Water Transmission Lines

Location: Qatar

Contractor: China Harbour Engineering, Habtoor Leighton, Boom, Sinohydro, Al-Jaber

Consultant: Hyder

Client: Kahramaa (Qatar's Electricity & Water Co)

Year: 2014 - 2020



LEGEND:	PRIMARY RESERVOIRS & PUMPING STATION (PRPS) SITES	CORRIDOR MAIN PIPELINES
	TRANSMISSION PIPELINES	
	QATAR UTILITY CORRIDOR	QES PIPELINES

Manufacturing commenced in September for the first of seven packages of high specification Dismantling Joints and Large Diameter flange adaptors which were specified with a 300 micron coating of 'holiday free Rilsan', in sizes up to 1.6m diameter. Viking Johnson is one of the very few manufacturers that can produce products that comply with such demanding technical specifications.

The objective of the Water Security Mega Reservoirs project is to provide seven days' potable water storage and to preserve Qatar's water quality in line with Kahramaa and World Health Organisation (WHO) standards.

This is a super-size project designed to create reservoirs capable of storing 3,800 million gallons of water. With five connected potable water mega reservoirs sites, with up to nine reservoirs in each, it will be the largest of its type in the world. The reservoirs and pipeline network, with associated pumping stations, will provide up to 17 million cubic meters of strategic potable water storage.

Viking Johnson delivered a series of technical presentations to consultants in Qatar and India which led to being invited to participate on the initial concept and design of the project.

Roger Tucker, Viking Johnson Technical Manager, said: "Being able to work closely on the ground with all the contractors and consultants involved with the Qatar Mega reservoir project is one of the reasons why Viking Johnson was chosen as the supplier of choice for this prestigious scheme."

The first stage will see the mega reservoirs and pumping stations constructed at five strategic locations along the Qatar National Utility Corridor and deliver storage capacity of about 2,300 million gallons of water in 24 huge concrete reservoirs and some 480km of buried ductile iron pipelines.

The next stage of the project will be implemented after 2020 and include the construction of additional pipelines and 16 new reservoirs within the five mega sites which will serve the population of Qatar for generations to come.



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