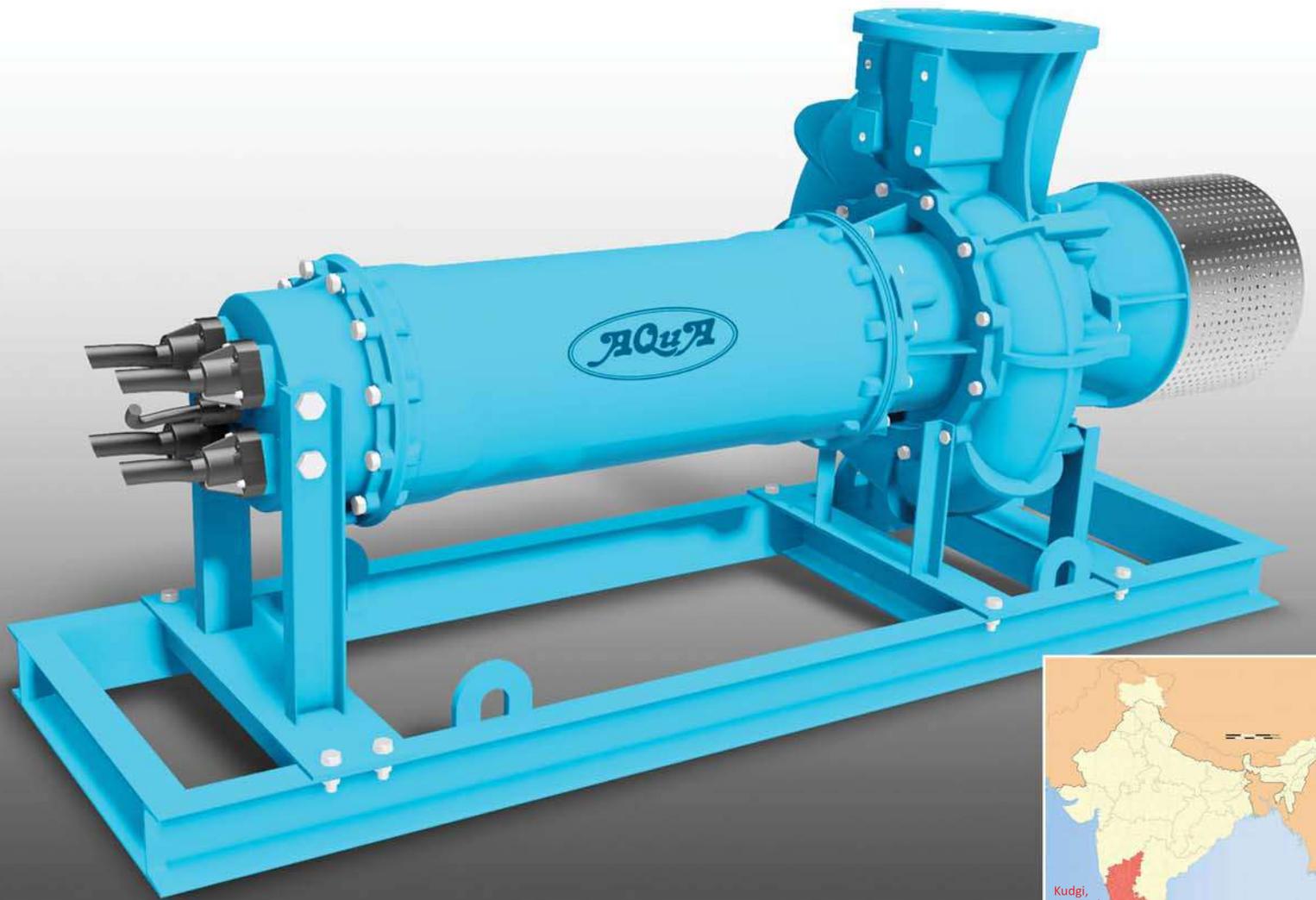




Intake of Almatti backwaters to NTPC kudgi plant for reservoirs, Kudgi, Karnataka, India.



The Situation

NTPC is setting up 800 MW STPP at Kudgi (Karnataka) near Bijapur. The water requirement for this project shall be catered by Almatti reservoir.

NTPC had already awarded the Work of Intake pump house; but due to site constraints, it takes longer time (2 to 3 years) for completion of intake works. The water level in Almatti dam varies from 506.87m as minimum water level to 519 m as maximum water level. NTPC wished to implement emergency water supply project for makeup water system to supply 50,000 m³ per day. It was a challenge since pumps were to be installed in existing Almatti reservoir, it also had to be suitable for level variation in Almatti dam.

Since the installation of pumps was to be done in existing reservoir; the pump sets & associated equipment had to be water proof, since they were expected to subject to rains, Storms, water splashing etc.





Project Data

Supply, installation, testing & commissioning of SubCF pumping machineries with electrical & other accessories.

Project	End User	Pump Model	No.of Pumps	Flow (m3/hr)	Head (m)	hp
KUDGI	NTPC	ARS_H_PS_1st_VoG_2563_M_M_0600_00415_NJ	2	1250	100	600

Aqua's Solution :

In such a condition Aqua's SCF was the best & almost exclusive choice since it could be easily installed in reservoir. Also being Submerged Centrifugal Pumps they were suitable for walking in hostile environment under rains, water splashing etc where in no other type of pumps were suited for direct installation.

In less than 60 days from intimation from NTPC Aqua supply 2 nos. of SCF pumps delivering 1250 m³/hr at 100 m with 600 hp motors. Also Aqua organized all other accessories like flexible and MS piping, valves etc & ensured delivery of water in to NTPC's 1100 mm delivery pipe. The electrical equipment including soft starters, electrical panels, etc also were organized by Aqua in a months time.

Conclusion :

Aqua was able to complete the project in the time frame due to its system Engineering and Application Engineering capabilities supported by strong manufacturing setup. Aqua's Concept to Commissioning approach was responsible for the end customer delight. Technically competent execution team, which is the strength of the Aqua, took timely accurate decision, made necessary recommendations to the stakeholders. There are the reasons how Aqua touches the new heights day by day by making new benchmarks, continuing in providing sustainable pumping solutions in any adverse condition.



