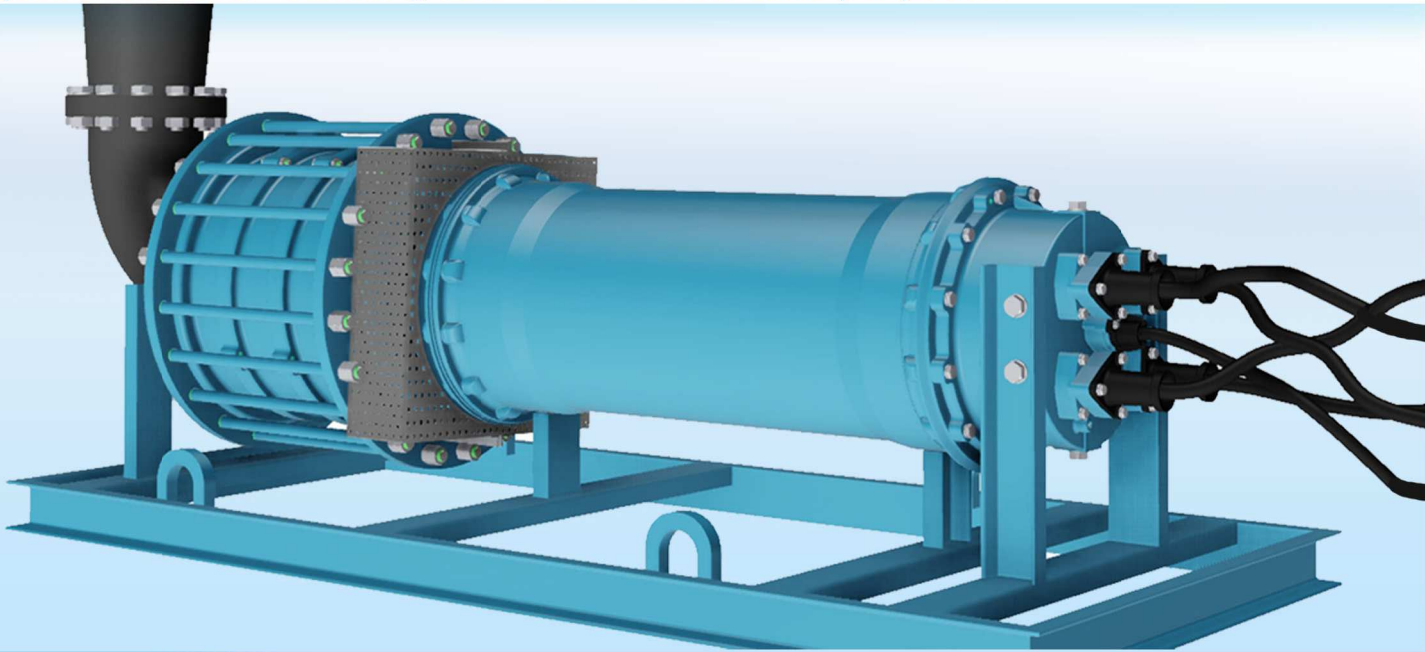




Rural Water Supply Programme, Bharuch

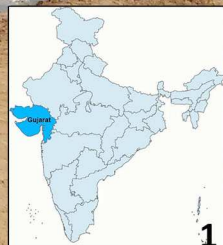
Adequate water for drinking and other house hold purposes



The Situation

The motive of Rural Water Supply Programme is to provide regular safe and adequate water for drinking and other house hold purposes to every citizen of Gujarat covering General, Scheduled Tribal and Scheduled Caste population in the State through various means like Hand pump, Individual water supply schemes, Regional/group water supply schemes, Mini programs based on electric or solar energy, Internal distribution water supply scheme, Recharging of underground sources and roof top rain water tanks. Presently, Rural Water Supply Schemes are designed considering 100 lpcd (Liters/Capita/-Day) rate of water supply which includes water demand of cattle

- Western part of Bharuch district is adjoining Arabeian Sea while north-east is rocky, hilly and uneven part under Satpuda ranges.
- Water is saline and contains fluoride in Jambusar, Vagra, Amod, Hansot, Bharuch and Ankleshwer talukas owing to high level of dissolved solids in ground water.
- Eastern talukas of Valiya, Jhagadiya and Netrang are rocky and hence hand pump and Mini pipe schemes are functional.
- Out of 647 villages in the district, 275 villages of 7 talukas are supplied with water from different 10 regional water supply schemes.
- In order that citizens have not to drink water with fluoride and brakishness, owing to day-by-day deteri orating ground water quality, State Govrnment has planned to cover 509 out of 647 villages of the dis trict under Regional water supply scheme based on surface sources.





Pump sets Data : 6 Nos. of Aqua Submerged Turbine Pumpset with Horizontal Portable Stand each having flow rate 1134 m³/hr, 51 m Head and 300 hp.

Project Data

Customer : Nand Intake Well, RWSS
End Customer : Gujart Water Supply & Sewerage Board.



The Outcome

- The Government has taken up works for Narmada based water supply project at an outlay of Rs.172 crores for Bharuch district situated on the banks of river Narmada.
- Augmentation works have been taken up by Water Supply Department of the Government for Narmadabara, Madhyabara and Uttarabara schemes covering total 231 villages and 2 towns of Jambusar, Bharuch, Vagra and Amod talukas of Bharuch District.

Aqua's Solution

The components of this Narmadabara scheme include 1 meter diameter 14 km pipeline from Nand to Palej, 15 km pipeline from Nand to Karmali, submerged centrifugal Pumping machinery, filter plant, under ground sump, pumphouse, ESR at Nand and 60 km distribution pipeline.

Conclusion

Aqua was able to complete the project in the time frame due to its system Engineering and Application Engineering capabilities. 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.