



# Augmentation of Raw Water Pumping Machinery, MIDC

Phase I -II-III, Rajiv Gandhi Infotech Park - Hinjewadi Industrial Area, Pune, India

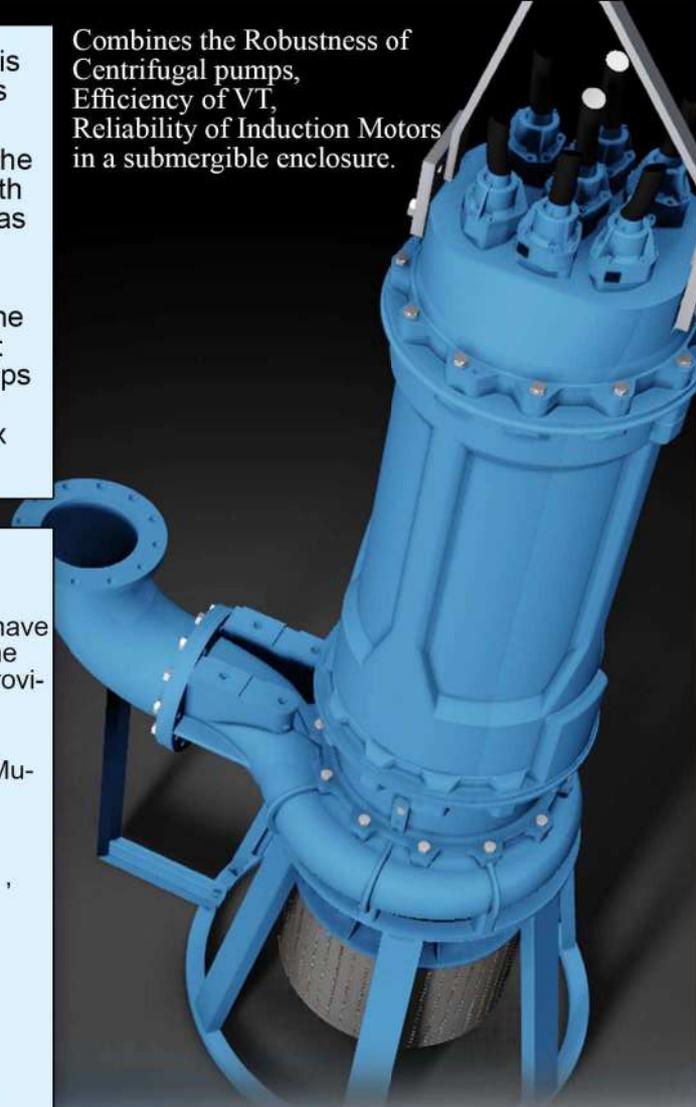
"An economically vibrant and sustainable city with diverse opportunities and rich culture; where all citizens enjoy a safe and livable environment with good connectivity"  
- RGIP, Pune

Hinjewadi is a Large IT Park located in the Pune City of India. It is on the Kattraj-Dehu Road bypass in Pune City. It is also known as Rajiv Gandhi Infotech Park, housing many software companies.

Hinjewadi was a completely rural locale until the construction of the Rajiv Gandhi Infotech Park. The park comprises three phases with further phases planned. Hinjawadi Industries Association(HIA) was laid out to provide a joint forum to all stakeholders based out of Hinjawadi and nearby places.

Hinjewadi is a proposed hub for integrated townships in Pune. The new Special Township Policy Act of the Maharashtra government has laid down an integrated approach to development of townships to de-congest Pune Municipal Corporation areas and encourage new settlements in its periphery though higher Floor Space Index than what is normally allowed in the municipal limits.

Combines the Robustness of Centrifugal pumps, Efficiency of VT, Reliability of Induction Motors in a submersible enclosure.



## Water Supply & Sewerage System :

The Pune Municipal Corporation area is 147.53 sq km consisting of City, Pune and Khadki Cantonments respectively. The three areas will have to be considered not in isolation, but as one Urban Agglomeration for the purpose of ascertaining the water supply demand and planning for its provision.

The Major source of water supply is Khadakwasala dam. At present the water supply in Pune Municipal Corporation area is done by Pune Municipal Corporation, areas in the Pune and Khadki Cantonments are served by the Cantonment Board. Pune Municipal Corporation's water works are situated on Pune- Sinhgad Road near Parvati, Cantonment area, Khadki-Holkar, bridge Wagholi WTP, Vadgoan near Sinhagad road, Warje Malwadi WTP, Warje WTP

There are High level Reservoirs for water supply distribution in the city, on Parvati, SNDT. hill, Chaturshringi, Ramtekdi, Thackeray hill, Bibwewadi. New sites have been reserved for Water works, in the draft Development Plan.

At present there are sewerage treatment plants located at Bhairoba, Tanajiwadi, Bopodi, Erandawane, Naidu, Vittalwadi, Mundhawa, Baner, Kharadi, Kalyaninagar, Vishrantwadi mental hospital.



## Project Data

Providing, installing, commissioning & testing of Vertical Portable Submerged Centrifugal pump set.						
Project	End User	Pump Model	No.of Pumps	Flow (m3/hr)	Head (m)	hp
SBM Projects & Engineers	MIDC	ARS 2052 MZ M 270	3	600	78.5	270



## Aqua's Economical Solution

In existing condition Aqua's Vertical Portable SubCF was the economically best & almost exclusive choice since it could be installed in old jack well it self. Also being Submerged Centrifugal Pumps, they were suitable for working in hostile environment where no other type of pumps were suited for direct installation. The other details and M.O.C are strictly as per MIDC specifications & requirement & relevant Indian Standards codes.

Providing, installing, commissioning & testing of Submerged Centrifugal pump set in vertical installation capable of discharging raw water at the rate of 600 m3/hr at the duty point head of 78.50 meter and operating within the head range of 76 to 80 meters with 270 hp squirrel cage induction motor (TEWC)- air filled having H class insulation & IP-68 protection with sensor for motor winding temperature & mechanical seal leaking along with 25 m long submersible PVC sheathed, round type copper, including providing and erecting fabricated M.S. portable stand with epoxy coating for mounting of pump and lifting chain of alloy steel of required length, stainless steel basket strainer.

## 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.