

Kesurdi- Khandala Industrial Area Water Supply Scheme, MIDC

Geography

Khandala is located at approximately 55 km south of the city of Pune. It has an average elevation of 700 metres (2300 feet). It is surrounded by the mountainous region of the Sahyādris. Khandala is a taluka in the Satara district in Maharashtra, India. The Nira River passes through the region. Khandala Taluka is situated on the northern side of Satara district. Khandala, Shirwal and Lonand are large towns in the taluka. Khandala got separated from Wai Taluka along with Mahabaleshwar for easier administration. The Nira River flows from the northern border of the taluka. "VEER" is the largest dam on the Nira River in Khandala. The southern border is covered with Mahadev Hills. From Mumbai, Khandala is situated on the PUNE-SATARA Highway (the only 6-lane highway after MUMBAI-PUNE EXPRESS HIGHWAY) part of National Highway 4. Khandala is a major city on the way to hill stations such as Mahabaleshwar and Panchgani from Pune.

SubVT

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

Termination :

MIDC has developed Kesurdi- Khandala industrial area on 310 hector land on Pune - Satara national highway. NH-4 near Shirval at 5 Km from Shirval towards Satara. All infrastructural facilities are being provided to the area.

For Water supply the 6 MLD WTP is constructed at MIDC Kesurdi. Raw water is lifted from VEER DAM at 15 Km from area. 500 mm dia DI rising main is laid from Veer Dam to WTP @ Kesurdi.



Supplying & erecting, commissioning & testing Pumping machinery & substation at Jack well & WTP etc complete.

Project	End User	Pump Model	No.of Pumps	Flow (m3/hr)	Head (m)	hp
Flowmac Engg Corporation	Executive Engineer (E&M) MIDC	AVT_V_PS_3st_BB_1533_M_M_0060_B_LT_NJ	3	150	68	60
		AVT_V_SS_3ST_BB_1534_M_M_0080_B_LT_NJ	3	150	85	80



Project Data

Vatharhinge



The Jack well is constructed at Veer Dam. The present work is for providing 3 nos x 80 hp Raw Water Pumping machinery (2 w + 1 Stand by) at Jack well along with all allied materials like panel, cables, valves, delivery mains etc and also providing 2 nos. 200 KVA Transformers in the existing substation at jack well at Veer Dam along with all allied material like Do set, AB switch, Disc & pin insulators etc.

Dhangarwadi

Bhadavade

Shivaji Nagar

Moh tarf shirwal



Also providing 3 x 60 hp Pure Pumping machinery at WTP (2 w + 1 Stand by) along with all allied materials like panel cable, valves, delivery mains etc . 2 x 200 KVA transformer substation with 630 KVA Ring main Unit and all other allied materials like cables, termination kits etc. These 03 Nos of Submerged vertical turbine pump sets are proposed to be installed @ the WTP pure water pump house, @ Kesurdi Khandala

Kesurdi

Bavada

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Aqua's Solution

In such a condition Aqua's SubVT pumps was the best & almost exclusive choice since it could be easily installed in jackwell. Also being Submerged Centrifugal Vertical turbine Pumps, they were suitable for working in hostile conditions. The material is subject to Shop, testing as well as Site testing in presence of MIDC representative. Aqua had arranged all requirements for testing. Installation got approval from Electrical Inspector & MS&EDCL.

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.