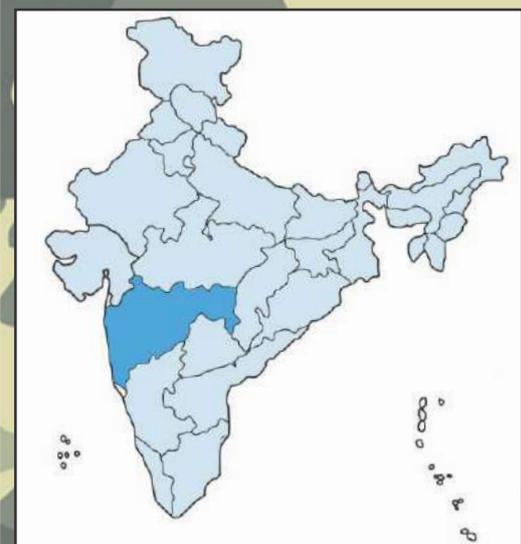


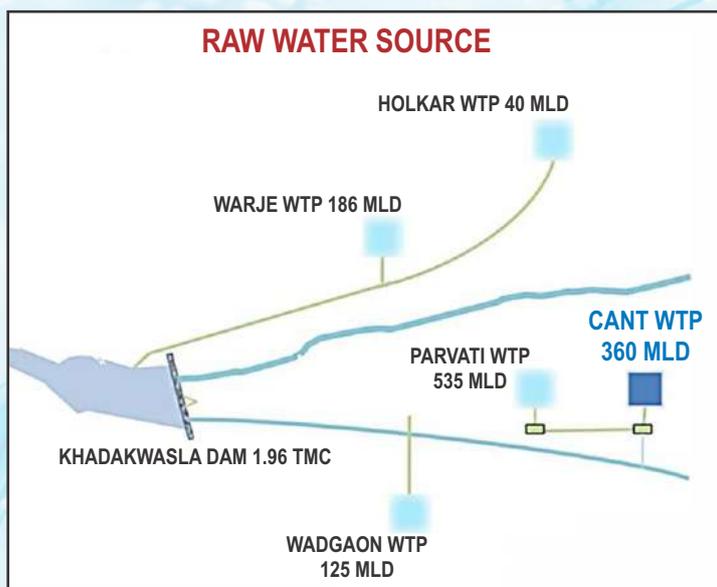
# *Pune selects Maintenance Free, Aqua Submerged Centrifugal pumpsets for its WTP*



Pune Cantonment Board was established in the year **1817** for accommodation of **British East India Company's** European regiments, Indian military troops, Indian Cavalry, thereafter fresh troops, regiments, battalions including cavalry & finally civilians gradually settled in & is now also known for its many shopping locations like MG Road and East Street - **it is a mini town in its own right...!**

The WTP was built 80years ago & the source of water is Khadakwasla Right Bank Canal originating from the Khadakwasla Dam built on the Mutha River 17km upstream.





**Khadakwasla Canal**

*The source of water is Khadakwasla Canal. Khadakwasla Dam is built on the Mutha River 21 km from the centre of Pune city . From the dam, water flow via gravity vide an Open Canal (nearly 17km) upto Napier road from where (again via gravity) vide Underground pipes to the Raw Water Intake Sumps of Cantonment WTP.*

## Situation :

Initially a combination of Horizontal Centrifugal pumpsets & VT pumpsets were installed for intake of raw water from the canal to the first phase of the WTP; but the following problems were faced :

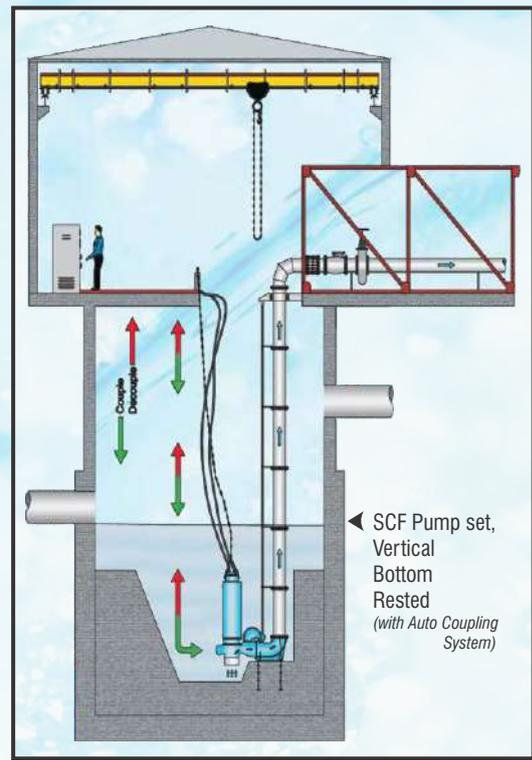
- Cumbersome Priming was required to start the Horizontal pumps.
- Whenever the water level in the canal fell below a certain level, the pumps starved & vibrated badly & also did not give adequate discharge.
- The pumps clogged frequently due to garbage like plastic bags, tree leaves/branches sacks, cloth pieces, etc. Every time the garbage entered the pump suction pipe, shutdown was required to remove the garbage in the pump casing.
- The pumps & motor were noisy & caused a lot of discomfort to the O&M staff.

Now, **Pune Municipal Corporation** awarded the Consultancy of Raw Water Lifting to M/s. Abhay Consultants Pvt. Ltd. & after through study of operational problems of pumps of 1st phase of WTP; it was decided to adopt Submerged Centrifugal pumps for the 2nd phase of WTP.

Aqua are the pioneers of Submerged Centrifugal pumps for Water Supply & Irrigation segment with a long proven track record all over India. In contrast to its competitors, Aqua is dedicated to Submerged pumpset technology & does not make any other Bare Shaft Pumps hence its Expertise is unparalleled.

**Mather & Platt**, one of the more respected Pump Manufacturers in India; secured this Contract & they preferred Aqua brand (over the other known local make) ...! This is a testimonial to the credibility of Expertise of Aqua in the realm of Submerged pumpsets...

*"The pumps & pumphouse worked beautifully without any problems for 5 years. Subsequently the Irrigation department directed the PMC to source raw water directly from the Khadakwasla Dam by providing a pipeline to Cantonment WTP bypassing the Intake Pumping system. Hence now the pumps are not used regularly - however the pumps are kept in working condition and used whenever the pipeline is shut down for repairs."* - Consultant



4MP/PED-L0160

KEY PLAN

LEGEND

- P PUMP
- M MOTOR
- D DOOR
- V VENTILATOR
- SV SLUISE VALVE
- NRV NON RETURN VALVE
- RS ROLLING SHUTTER
- ATS 200 HP ATS PANEL
- RWP RAW WATER PANEL

DESCRIPTION	UNIT WEIGHT	QTY
PUMP+MOTOR	3500	4
MOTOR		
SLUISE VALVE		
NON RETURN VALVE		
LV PANEL		

NOTES  
ALL DIMENSIONS ARE IN MM.  
ALL LEVELS ARE IN METERS.

SECTION X-X

REF. DRG. NO-5 REV. 1  
REF. DRG. NO-6 REV. 1

CLIENT - PUNE MUNICIPAL CORPORATION  
PROJECT - CANTONMENT WATER TREATMENT PLANT  
CONSULTANT - M/S ABHAY CONSULTANTS PVT LTD PUNE  
CONTRACTOR - MATHER & PLATT PUMPS LTD.  
MATHER & PLATT PUMPS LTD. CHINCHWAD, PUNE - 411 018

NO.	REV.	DATE	BY	CHKD.	APP'D.	DESCRIPTION

NO.	REV.	DATE	BY	CHKD.	APP'D.	DESCRIPTION

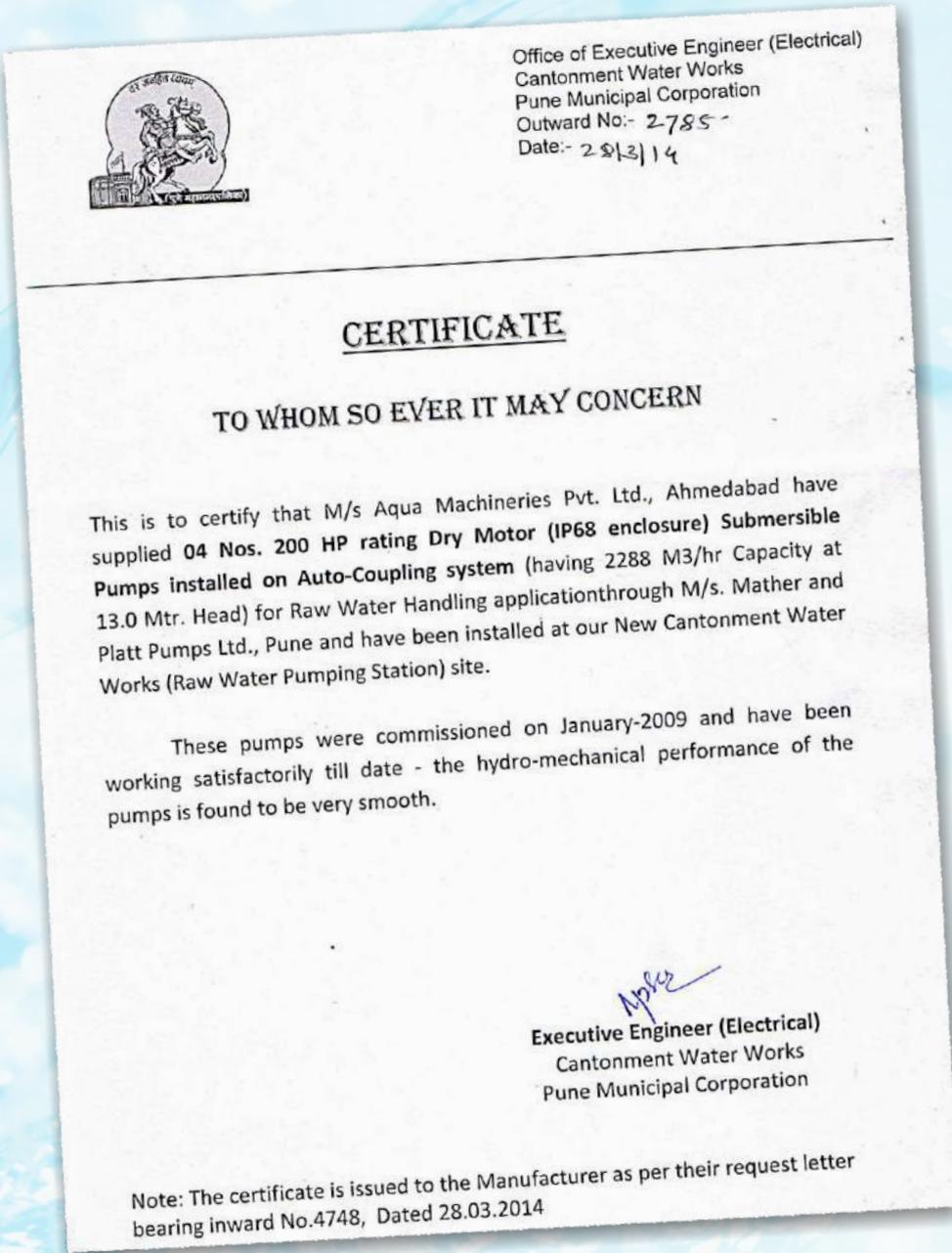
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CHECKED: 08/11/10  
APPROVED: 08/11/10

**GEN. PUMP HOUSE LAYOUT FOR RAW WATER**

4MP/PED-L0160

End Client : Pune Municipal Corporation

Contractor : Mather & Platt Pumps India Ltd.



*“Operating experience of the Submerged Centrifugal pumpsets is very satisfactory. As compared to Horizontal & V pumps; Submerged CF pumps generate Lesser Noise & Vibrations. Problems of Priming & Suction starvation were also solved & the Downtime has reduced drastically by 90%. ”*

- Consultant

*M. S. K.*  
Executive Engineer (Electrical)  
Cantonment Water Works  
Pune Municipal Corporation

Note: The certificate is issued to the Manufacturer as per their request letter bearing inward No.4748, Dated 28.03.2014



### Ultra Low Maintenance

Requires neither Consumables nor Routine Maintenance (like Priming, Oiling, Greasing, Gland Tightening, Shaft Alignment, Dry Run Prevention, Forced Water Lubrication systems, etc.)



### Low Life Cycle Costs (LCC)

Almost Zero Consumables, Minimal Maintenance & Low Wire to Water Power Consumption



### Minimal Noise, Vibration & Heat Emission

Due to elimination of Auxiliary & Ancillary systems like Forced Water Lubrication, Thrust Bearing Cooling system, Motor Heat Exchanger.

## Aqua Machineries Private Limited

[www.aquapumps.com](http://www.aquapumps.com)

Registered Office & Manufacturing Plant

Survey No. 504/1-2, 442/2, Near Haridarshan Estate, Near Express Highway, Ramol, Ahmedabad-382 445. Gujarat, India.

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