

Rajkot City Water Supply

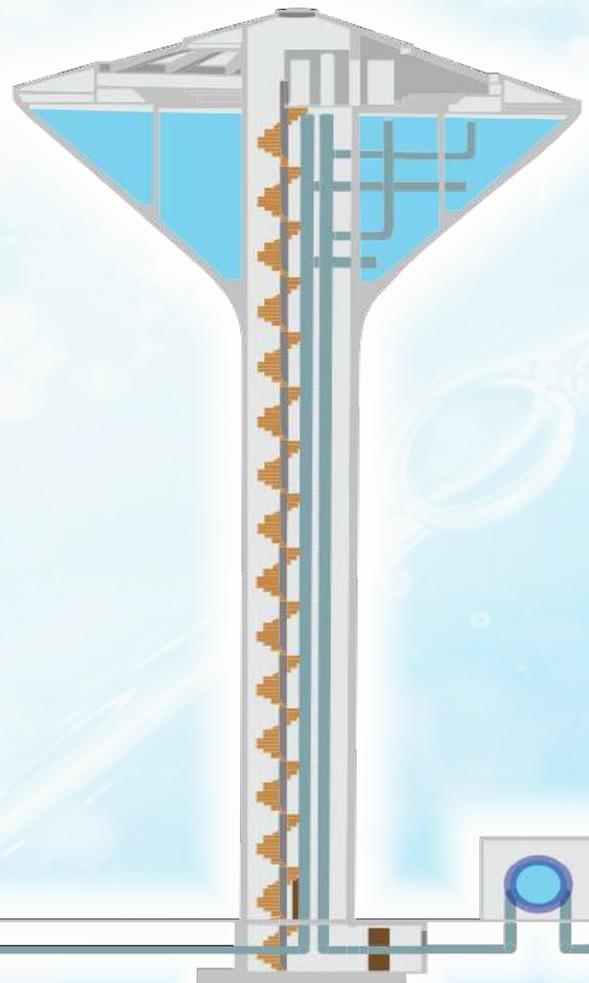
Rajkot is the 4th largest city in the state of Gujarat & is the center of the Saurashtra region of Kathiawar peninsula of Gujarat with a population of more than 1.8 million (as of 2018).

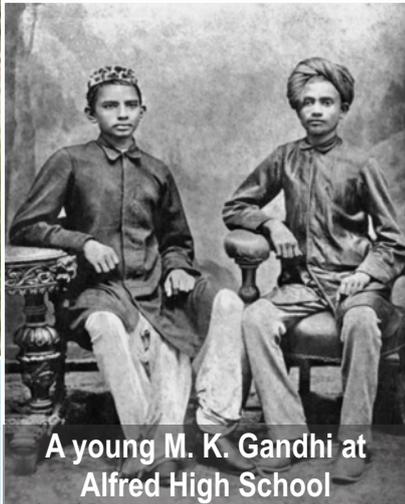
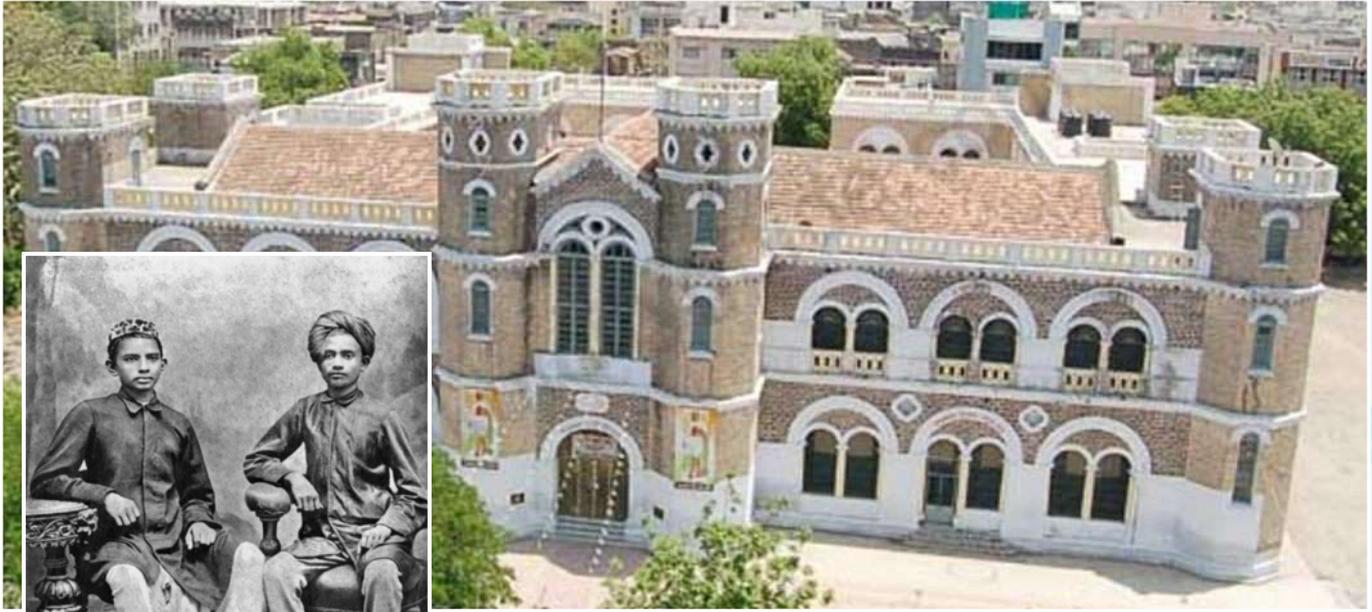
It is the 2nd Cleanest city in India & is the 22nd Fastest Growing city in the world (as of July 2019).

It is an Industrial center active in jewellery, silk embroidery, watch parts; bearings, diesel engines, kitchen knives, watch parts, automotive parts, forging industry, casting industry, machine tools & CNC machines.



RMC is doing a sterling job of supplying 135mld water to the city (in this otherwise **Water Scarce Region**) aiding it's rapid growth as an Industrial centre





A young M. K. Gandhi at Alfred High School

Rajkot is also famous for providing education to Mahatma Gandhi (*Gandhiji*), at the Alfred High School (*now the Mahatma Gandhi Museum*).

Spread over an area of 170 km², at an average elevation of 128m; it is the highest city of the Kathiyawar peninsula & located on the banks of Rivers Aji & Nyari River.

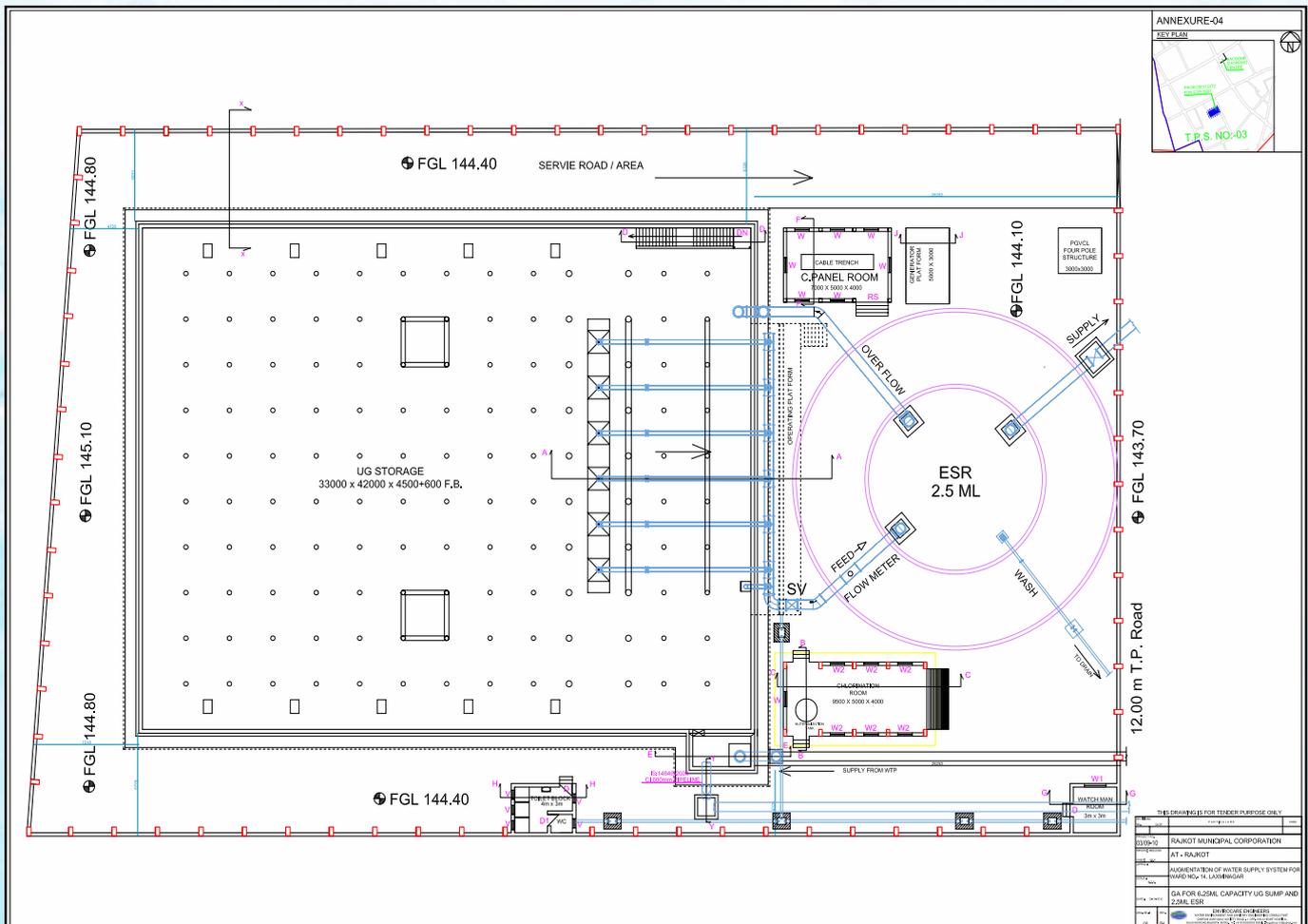
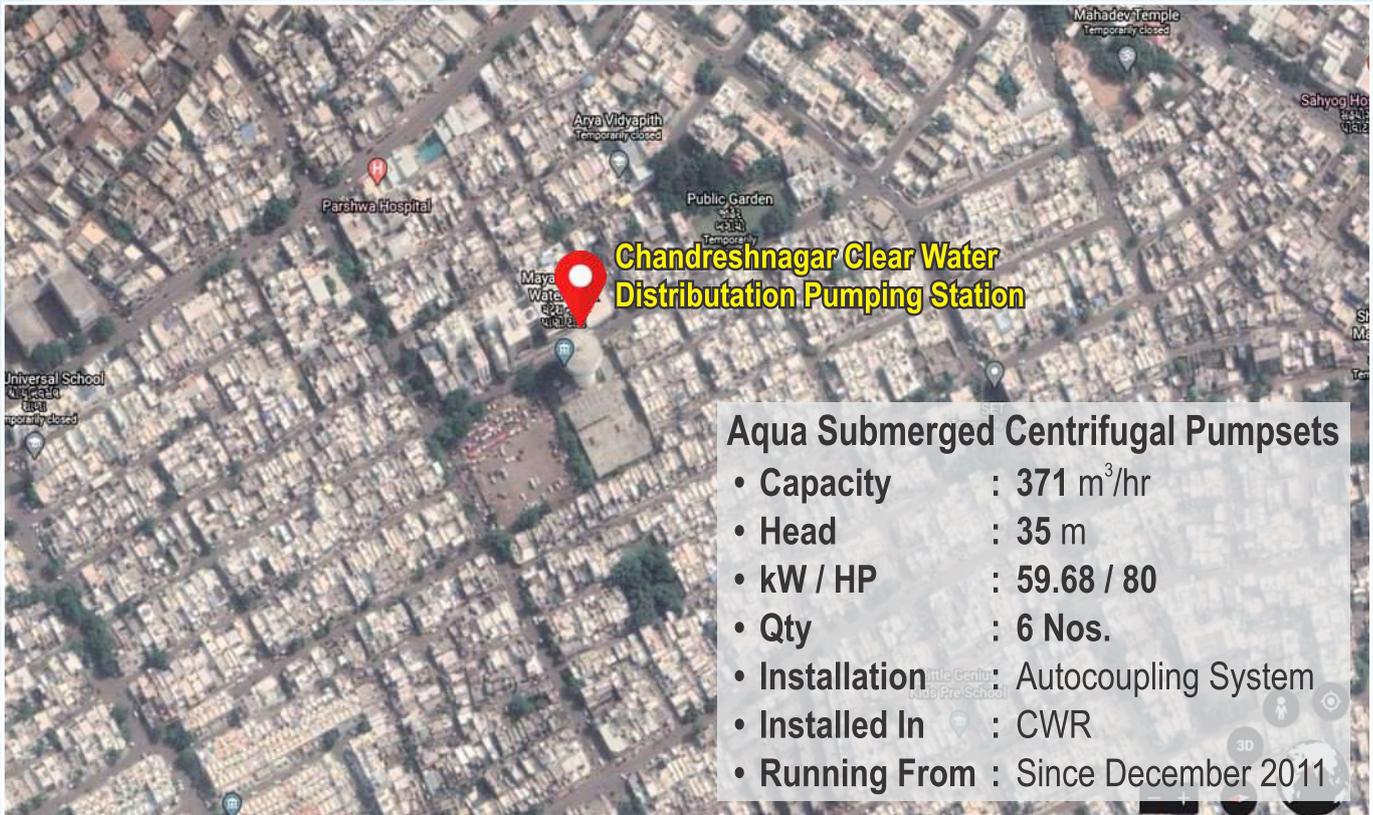
RMC draws water from various surface reservoir viz. Nyari-I, Nyari-II, Aji-III, Bhadar, Lalpari and Randarda lake along with some borewells drilled in Wankaner region. However, being an arid region; as summer approaches it becomes increasingly dependent on Narmada waters supplied by GWIL + GWSSB.

There are 4 filtration plants viz. Ribda, Aji, Nyara and Ghanteshwar with total filtration capacity of **135mld**.

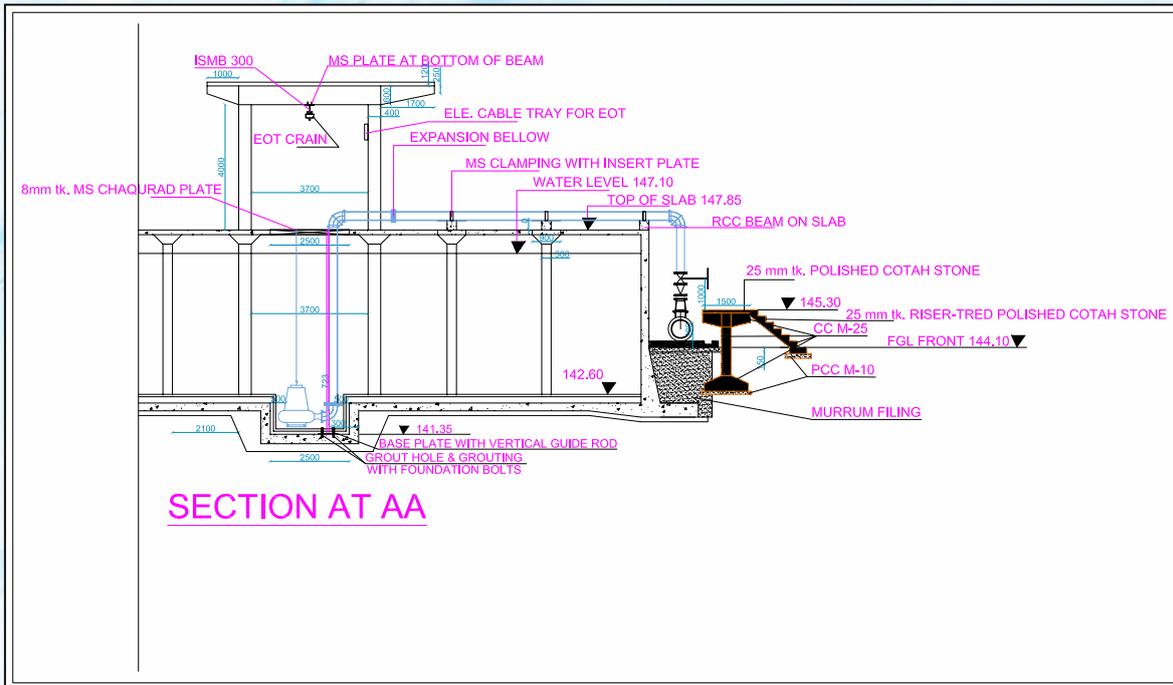
The water supply distribution system is divided into 4 zones viz. Jubilee, Gurukul, Nyari and Aji.



Chandreshnagar Clear Water Distribution Pumping Station



Chandreshnagar Clear Water Distribution Pumping Station

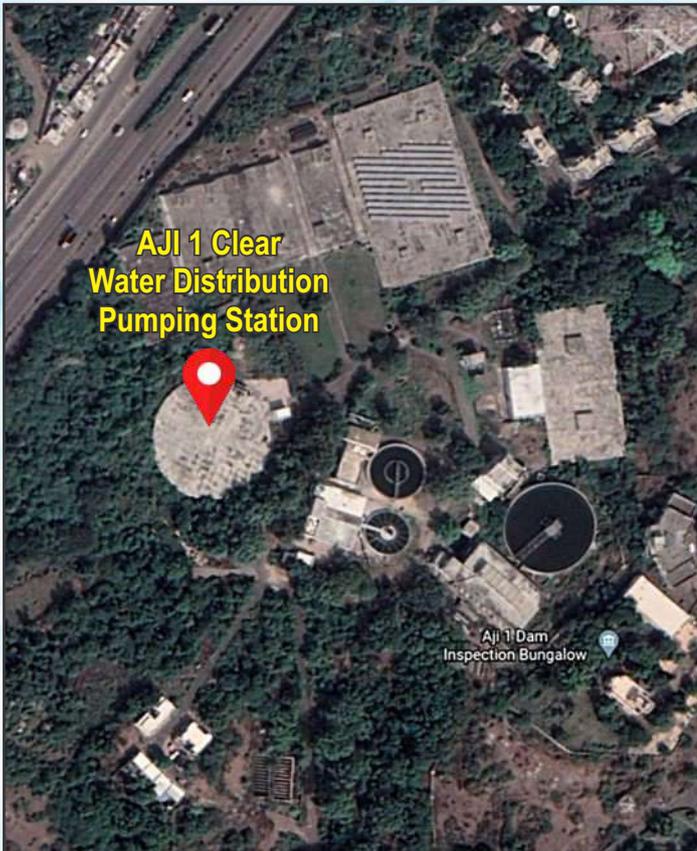


“ We are using "Aqua" make Submerged Centrifugal pumpsets (since 2011) for Clear as well Raw water applications.

In our experience, as compared to HSCF or V pumps; Submerged CF pumps require Lesser Maintenance & yet are Equally Energy Efficient ”

- C B Mori, DE, Water Supply Department, RMC

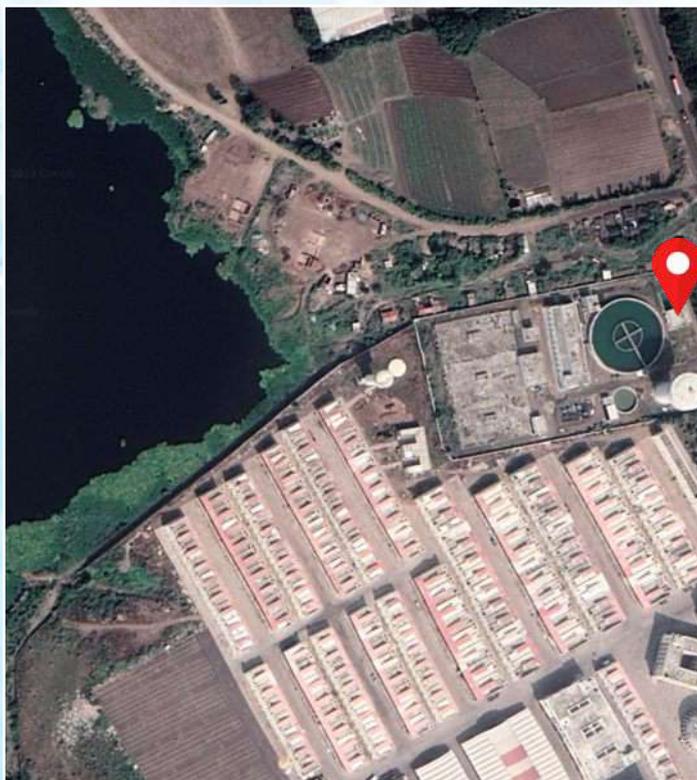
AJI 1 Clear Water Distribution Pumping Station



- Aqua Submerged Centrifugal Pumpsets**
- Capacity : 1150 m³/hr,
 - Head : 30 m
 - HP : 170
 - Qty. : 4 Nos.
 - Running From : Since 2016

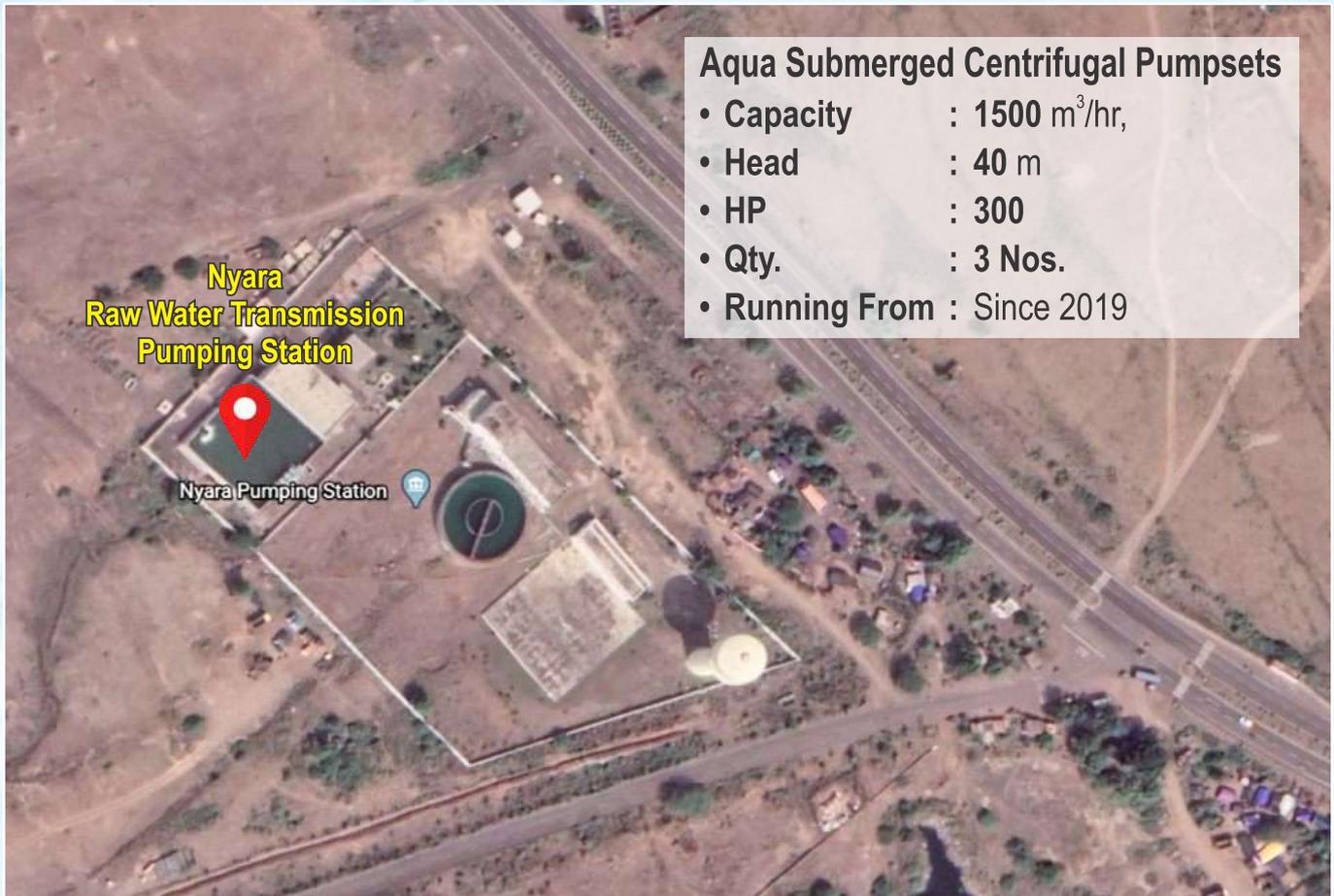


Bedi Water Pumping Station



- Aqua Submerged Centrifugal Pumpsets**
- Capacity : 835 m³/hr, 1250 m³/hr
 - Head : 38 m, 10 m
 - HP : 160, 65
 - Qty. : 3, 3 Nos.
 - Running From : Since July 2015

Nyara Raw Water Transmission Pumping Station



Submerged Centrifugal Pumps can be easily be bottom rested (without any RCC works) at any one side of the existing sump (without shutdown).



Substantial Savings

Reduction in Pump House Space, Construction cost & Suction piping Manifold complexity.



Low Energy Cost

Due to Elimination of Suction Losses, Coupling Losses & Auxillaries; Wire to Water Pumping Station Efficiency is slightly better than HSCF / VT base Pumping Station.



Low Life Cycle Costs (LCC)

Zero Consumables, Minimal Maintenance Spares & Good Efficiency.



Minimal Noise, Vibration & Heat Emission



Robust & Reliable

Over-safe Design & Smart Protection Systems result in high Reliability.



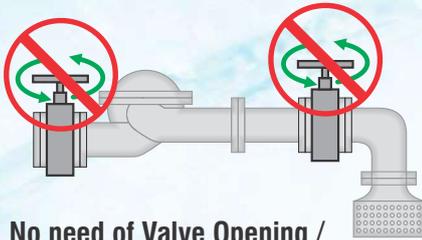
User Friendly

- No risk of cavitations.
- No damage due to Flood or Rains.

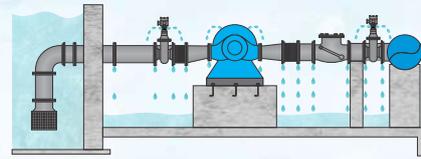


Plug & Pump

- No base Plate or Coupling to align;
- No priming to startup



No need of Valve Opening / Closing during pump Start/Stop



No Nuisance Leakage (from Piping Flanges &/or Pump &/or Valve Glands) to be Regularly DeWatered



Tolerates Wide Voltage Variation



Tribologically Optimized **Bearing** Components for Bullet Proof Reliability



No need for Frequent Periodic....



Shafts &/or Coupling



Gland Packing



Oil &/or Grease

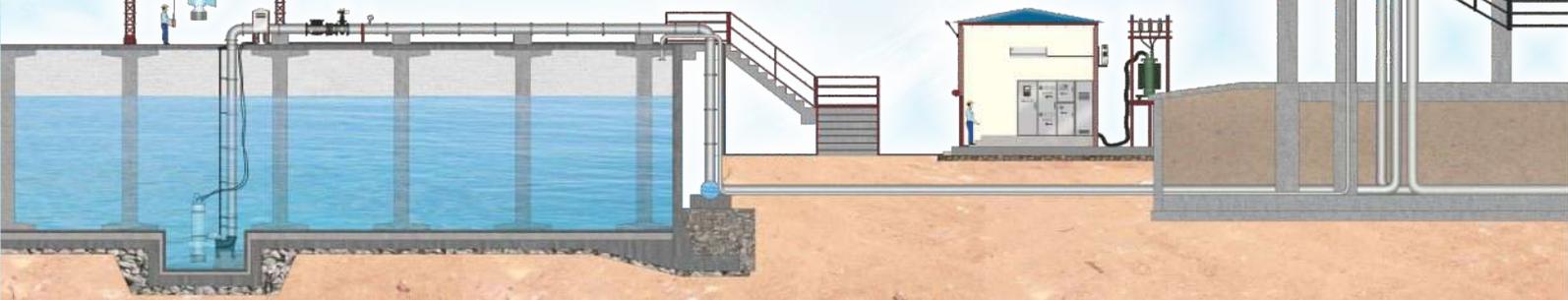


Thanks to generous Reserve Margins & Optimized Design; Aqua's Motors keep coolly working even in scorching summers

We are using "Aqua" make Submerged Centrifugal pumpsets (from 2011 to 2016).

In our experience, as compared to HSCF or VT pumps: Submerged CF pumps don't require any Oiling, Greasing, Gland Tightening, Alignment Checking, etc & yet are almost equally Energy Efficient"

- P N Patel, Contractor, Riddhi Engineers, SITC + O&M Contractor, Chandreshnagar PS





Rajkot Municipal Corporation

Water works branch, Room no. 12, West Zone Office, Bldg. Big Bazar,
150 ft Ring Road, Rajkot - 360 005

Dt:19.04.2014

મહત્તી-વેલરેશન વો વર્ક નં.૨૦૬

CERTIFICATE

To whom so ever it may concern

This is certify that, we are using AQUA make Submerged Centrifugal Pump sets of motor rating 80 HP, with duty point of 371 m³/hr - 35 mtr head, Qty 6 Nos. at Chandreshnagar pumping station of water works, since Dt:25.12.2011 to till today and these pump sets are running satisfactorily without any maintenance or repairing. We recommended for the application of these pump sets as alternative energy efficient pumping machinery with HSCF or VT pump sets.


Dy Executive Engineer
Water works
Rajkot Municipal Corporation



રાજકોટ મહાનગરપાલિકા

શ્રી અવેરગંદ મેથાણી ભવન, પૂર્વ ઝોન કચેરી, વોટર વર્કસ શાખા (લેડિ ઝોન),
રાજકોટી ઓઈલ મીલ સામે, ભાવનગર રોડ, રાજકોટ - ૩૬૦ ૦૦૩.

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રા.મ.ન.પા.વો.વ.પુ.ઓ.જા.નં. ૨૫૫૫

TO

Aqua Machineries Pvt Ltd.
S no 504/1+2 ; 442/2 Near Haridarshan Estate
Near Express highway; Ramol, Ahmedabad

TO WHOMSOEVER IT MAY CONCERN

This is to certify that; we are using "AQUA" Make submerged Centrifugal Pump sets at Bedi_PS_50 MLD of capacity 835 m³/hr at 38 mtr head Model ARS 2042 M M 160 Motor Rating 160 HP / 3 Nos & 1250 m³/hr at 10 mtr head Model ARS 3042 MQ L 065 OJ Motor Rating 65 HP / 3 Nos since 5 Year the performance of said pump sets are found satisfactory from the date of installation.

We are satisfy with performance & services provided by Aqua Machineries Pvt Ltd after sales.

Regards
Dy. Executive Engineer
Water Works
Rajkot Municipal Corporation

Aqua Machineries Private Limited

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.

marketing@aquapumps.com