



SEWAGE

## Heavy Duty, Dry Installed, Non Clog, Flood Proof Centrifugal pumpset, Dry Well of Sewage Pumping Station, Vasna, Ahmedabad, Gujarat, India.

Sabarmati river has been an integral part in the life of Ahmedabad since the time the city was founded in 1411 along the river banks. Besides being an important source of water, it provided a backdrop to cultural and recreational activities. During the dry seasons, the river bed became a place for farming. With time it also offered place for various informal economic activities, and the river banks were used by informal squatter settlements.

Gradually, however, the intensive uses took their toll on the river. Untreated sewage flowed into the river through storm water outfalls and dumping of industrial waste posed a major health and environmental hazard. The river bank settlements were disastrously prone to floods and lacked basic infrastructure facilities. Lacklustre development took shape along the riverfront. Such conditions made the river inaccessible and it became a virtual divide between the two parts of the city. Slowly, the city turned its back towards the river.

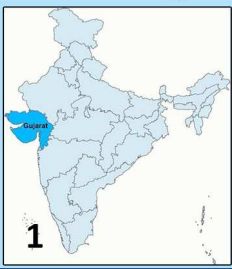
### Sewage Diversion

To stop the pollution of the river from the stormwater outfalls and industrial effluents, an integrated storm water and sewage system with interceptor sewers has been implemented. These interceptor lines have been installed along both banks of the river capturing 38 sewage discharge points and routing the sewage with new pumping stations in the reclaimed banks. These lines carry untreated sewage to the recently augmented sewage treatment plants south of Vasna Barrage.

**Aqua has given India's largest Dry Installed, Flood Proof Centrifugal pump set to replace Japanese VNC pumps in Dry Well of Sewage Pumping Station, Vasna, Ahmedabad, Gujarat, India. - 4500 m3/hr of each pumpset.**



**ANFP**  
**ANFP Dry Installed, Non Clog**  
**Flood Proof Centrifugal Pumps**



**Pump set Data : ANFP Dry Installed, Nonclog Flood Proof Centrifugal pump set.**

Model Code	Flow (m3/hr)	Head (m)	hp	Qty.
ANFP_6084_M_LLL_335	4500	15.5	335	2

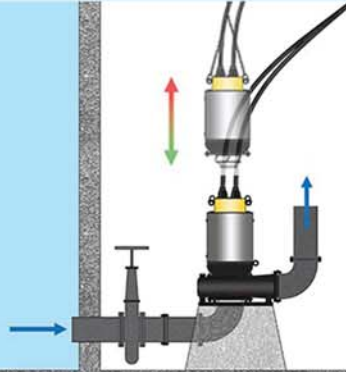
**Project Data**

- **Customer** : Patel Brothers, Ahmedabad.
- **End Customer** : Ahmedabad Municipal Corporation Sewage Treatment Plant Department, Vasna, A'bad, Gujarat.

**The Back Pull Out Mechanism**

**Rotating Assembly Pulled Out for Maintenance**

**No Need to Dismantle the Piping at all...**



**The Situation :**

The city is divided into five sewerage zones. There are about 43 sewage pumping stations in the city, which pump sewage into the terminal pumping stations at Vasna before the inlet chambers of the sewage treatment plants.

The less and non- polluting industries in GIDC are presently not treating the waste and the effluent is discharged either in the open (on the roads, open spaces in the GIDC estates) or in the Kharicut Canal. The other industries in AMC and Behrampura (highly toxic waste) are connected to the main sewer line and the effluents from these are being discharged into River Sabarmati without any treatment.

**Aqua's Solution :**

In addition to above, recently sewage treatment plant (UASB) of capacity 126 MLD (36 MLD for city & 90 MLD for periphery) at Vasana (old) respectively was commissioned as a part of Sabarmati river action plan.

This drainage network project was undertaken as part of Sabarmati River Cleaning Project under National River Cleaning Project. This carries wastewater to Vasna Terminal Sewage Pumping Station and 126 MLD Sewage Treatment Plant at Vasna for further treatment. After treatment, it is discharged into Fatehwadi Canal. Out of this 126 MLD capacity treatment plant, 90 MLD capacity was provided for the flow from periphery areas while 36 MLD flow for AMC areas.

**Performance Certificate from End Customer**

AHMEDABAD MUNICIPAL CORPORATION  
SEWAGE TREATMENT PLANT DEPARTMENT

D.H. SUTHAR  
BE ( Mech),D.E( Electrical)  
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**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that, for our Vasna Terminal SPS, we are using 2nos of Aqua make Dry Installed Submersible Non Clog Flood Proof Pumps. These pumps are installed in Dry Pit of old SPS using old suction x Delivery pipe. The Aqua make pumps have a Close Coupled, Submersible motor which is sewage cooled yet dry installed – i.e. The pumpset is capable of operating in dry or wet conditions. This pumpset has replaced for older VNC type pump having capacity of 4500m3/hr at 15.5m head. These Pumps are commissioned on July 2012 and working is satisfactory till date. The SITC work of these pumps has been carried out by M/s Patel Brothers.

*DH*  
10/10/13

Add.Chief Engineer  
(S.O.E & M.)