

REFURBISHMENT OF PUMPS:

MCGM PANJRAPUR

Background/Objective:

Located in Bhiwandi, Panjrapur is one of the major drinking water pumping station of **Municipal Corporation of Greater Mumbai**. The pumping station meets the drinking needs of the entire eastern belt of Mumbai. Installed and continuously used for about 25 years, the 22 pumps with the capacity of 90 MLD (Million Litres Per Day) coupled with 1200/1100 KW Motors were delivering below the designed hydraulic parameters. VEMC was asked to assist with the refurbishment of the pumps.



Approach:

The process followed for such projects involves an initial visit, an energy audit and deciding on a course of action. With the Panjrapur project, the MCGM had previously experimented with corrocoating in 2014-2015 by offering 1 pump as a test. After receiving outstanding results, MCGM offered 7 pumps to VEMC for the project, 3 for 2015-16 and 3 other 2016-17.

VEMC as a solution provider:

With the suggested corrocoating solution, the pumps would work efficiently and would see a significant rise in savings as well as an increase life of the pumps. As with the Bhandup project

undertaken by VEMC, a coat of Fluiglide, a hydrophobic solution ensures that the pumps remain damage free corrosion & erosion. Apart from this, it is noted that corrocoating helps in saving of around 72KWH i.e 631 Megawatts, which works out to about **Rs 54Lakhs a year!**

Apart from the significant savings, MCGM will be aiding in saving precious energy.

Outcomes:

The pumps are working efficiently without any issues. The life of the pumps have increased. With the 7 pumps the total savings works to about 4417 MW and a cost saving of about Rs 378 Lakhs shall be saved for every, one year. MCGM is very impressed with the solutions offered and the execution.

