

Application story



Reverse Osmosis for Industrial Waste Water

Location	Hyderabad, India (Installation: 2018)	Hydra-Cell model	G15XDSGHFEMB and G35XKSGHTCB
Type of application	Reverse Osmosis for Industrial Waste Water	Flow rate	2500 l/hr and 7500 l/ph
Liquid	Water (ETP)	Pressure	60 bar and 65 bar
Application details	The end user customer manufactures pharmaceutical intermediates and supplies to various pharmaceutical companies in India and overseas. Wanner Hydra-Cell pumps are installed at their RO plant to treat the industrial waste water from the Effluent Treatment Plant (ETP). With this operation, high total dissolved solids (TDS) water is converted in to low TDS water which can be further used in process. ETP water has TDS of about 20-25 K. By using the RO process, High TDS water can be reduced to low TDS as 500-700 TDS. In this application, ETP water fed into the RO membrane and resistance developed of 60 Bar and from one side low TDS water comes considered as permeate and other side is rejected as high TDS water. The low TDS water can then be used fro processing and the high TDS water is disposed. Previously the customer installed triplex plunger CAT pumps, these pumps had frequent breakdowns with leakage and resulted in expensive repairs. From the latest reports, The Hydra-Cell pumps have been running since problem-free since 2018 with minimal maintenance and without any need for spare parts.		
Advantages of Hydra-Cell pump on this application	Seal-less design eliminates expensive seal maintenance and leakage issues.		

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