



**SEWAGE TREATMENT PLANT
UPFLOW ANAEROBIC SLUDGE BLANKET (UASB)
43 MLD, VMC, ATALADRA, VADODARA**



Client	Vadodara Municipal Corporation, Vadodara, Gujarat
Contractor	Rajkamal Builders Infrastructure Pvt. Ltd., Ahmedabad
Project Cost	INR 186.7 Million
Scheme	JnNURM
Status	Completed
Salient Features	<ul style="list-style-type: none"> • Treatment - UASB process followed by Extended Aeration • Bio-gas based power generation (330KWe gas engine) • Major Units of STP comprises of <ul style="list-style-type: none"> ✓ Inlet Unit (Stilling Chamber, Mechanical Fine Screen Chamber, Mech. Grit chamber, Flow Measuring Channel) ✓ UASB Reactor ✓ Pre-Aeration & Aeration Tank ✓ Secondary Clarifier ✓ Return Activated Sludge sump & Pump Houses ✓ Sludge Thickener ✓ Gas Holder, Gas Flaring System & Gas Engine ✓ Refurbishing of existing SPS, providing 1800 m³/hr @19.1m TDH Submersible Non-clog sewage pumps, 135KW motor rating, 6 Nos. (4W + 2S) ✓ PLC based controls for Level based auto operation of Sewage Pumps at SPS & for Captive Power Generation Plant • VMC received JnNURM award for being the best city for project implementation of STP at Ataladra – one of the few projects in the country completed successfully on UASB and generating bio-gas based power resulting in cost saving for VMC
Services Provided	<ul style="list-style-type: none"> • Preparation of Basic Engineering Design (Process & Hydraulic) • Detailed Engineering including Preparation of G.A. Drawings & Civil Design, Piping, Electro-mechanical & Instrumentation Works • PMC Services including Supervision over Construction, Testing & Commissioning of Bio-Gas based Captive Power Generation Plant