

WASTEWATER TREATMENT FACILITY

HARYANA STATE, INDIA



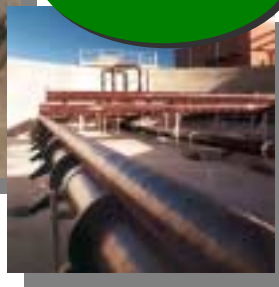
MECHANICAL BAR
SCREEN AND GRIT
REMOVER

PRIMARY
TREATMENT



SECONDARY
TREATMENT

SBR FLOW
CONTROL AND
SBR JET



TERTIARY
TREATMENT

EFFLUENT
FILTRATION



Aplin & Martin Consultants Ltd. provided the project management and engineering services for the concept development and predesign of the layout, water, sewer, roads, stormwater, streetlighting and landscaping for this exclusive development for a population of 10,000 in the Gorgon Region, Haryana State, 30 km southwest of New Delhi.

The Wastewater Treatment Facility provided sewage treatment to tertiary level to facilitate 10% recycling of treated effluent through a 'grey water' supply system for irrigation fire fighting and level control of an extensive water feature system. The facility was designed as a compact below ground facility minimizing land utilization with a treatment capacity of 2,250 m³/day. Primary treatment comprised screening and grit removal. A Sequential Batch Reactor (SBR) process was selected for secondary treatment as it provided biological nutrient removal and it is a low odour process with a minimal sized footprint. Filtration and chlorine disinfection provided the tertiary treatment for 'polishing' the effluent. The sludge is dewatered using a filter press before being trucked away for off-site disposal.