

Main Units	Construction Requirements	Electromechanical Equipment Supply & Installation Requirements
UV Disinfection and Microfiltration Unit	Stage 2	Stage 2
Odor Control Unit	Stage 2	Stage 2
Return and Excess Sludge Pumping Station	Stage 2	Stage 2
Gravity Thickeners for Primary Sludge	Stage 2	Stage 2
Anaerobic Digester	Stage 2	Stage 2
Digested Sludge Storage Tank	Stage 2	Stage 2
Desulfurization Unit	Stage 2	Stage 2
Dewatering Building (Mechanical Thickeners and Dewatering units)	Stage 2	Stage 2
Sludge Drying Unit	Stage 2	Stage 2
Sludge cake storage area	Stage 2	Stage 2
CHP Building	Stage 2	Stage 2
Gas Holders	Stage 2	Stage 2
Gas Flare	Stage 2	Stage 2
Inlet and effluent main pipes	Stage 2	Stage 2
Main Pipes Between Treatment Units	Stage 2	Stage 2
Distribution and Collection Chambers	Stage 2	Stage 2
Transformer Building	Stage 2	Stage 2

The design works shall include full process, architectural, layouts, site piping, mechanical, electrical and automation disciplines to cover Stage 2 requirements.

The wastewater treatment plant shall fulfil the requirements stated in the EU Council Directive of 21 May 1991 concerning urban wastewater treatment (91/271/EEC) and amendment 1998/15 and those stated in the relevant Turkish legislation.

Phosphorus and nitrogen removal shall take place at the treatment plant.

The engineering design of the works will be subject to the approval of the Engineer.

2.2 Hydraulic Loads and Hydraulic Profile

The design of the wastewater treatment plant shall be based on the wastewater flows and pollutant loads listed in Table 2-2 and Table 2-3 below:

2.2.1 Hydraulic Loads

The hydraulic flow rates that will be used for design purposes are given in table below.