

Al Khan Pumping Station – Sharjah, UAE

General Information about the Plant

MENA-Water supplied screens with conveyor and penstocks for the prestigious client Sharjah Municipality drainage department, which was looking for complete coarse screening, compaction of screened mass & its isolation penstocks. Being regional supplier for FSM screens (German origin) and SS 316 L penstocks (Germany), MENA-Water achieved the requirements of the client.

Multi Rake Screen

The waste water flows through bars made of stainless steel, while contaminants are held back. Solid matter is picked up directly at the bottom of the channel without the need for a base step. The cleaning elements are fixed between two chains and are designed with teeth for the best cleaning of the screen. The screenings are discharged into a screw conveyor with washing compaction.

**PLANT
CAPACITY
2x 46,800 m³/d**

Make	FSM-Germany
Flow rate	2 x 46,800 m ³ /day
Channel depth	5,245 mm
Channel width	800
Bar opening	25 mm
Material	SS 316

Screw Conveyor with Washing Compactor

Screw conveyors are used to convey solid matter. The conveyor is constructed with a shaft. Collected screenings from the Multi Rake Screens are discharged into the Screw Conveyor with the integrated washing and compacting system to wash and compact the screenings material and then discharge to skip.

Make	SF 300 / FSM-Germany
Capacity	4 m ³ /h
Length	4,000 mm
Screw diameter	290 mm
Material	SS 316
No. of discharge	1 No.
No. of hopper	2 No.



	Equipment	Application
2x	Multi Rake Screen	screenings removal
1x	Screening Conveyor	washing and compaction
4x	Channel Penstocks	flow control & regulation
1x	Channel Penstocks	grit trap aeration



Penstocks

The penstock is a sluice or gate or intake structure that controls water flow or an enclosed pipe that delivers water to hydraulic turbines and sewerage systems. This penstocks are hand operated equipment.

Type: 3 – sides rig

Pieces: 4

Channel width 800 mm

Channel depth 5745 mm

Penstock width 600 mm

Penstock height 1500 mm

Spindle length 4250 mm

Material SS 316 L

Type: 3 – sides rig

Pieces: 1

Channel depth 5745 mm

Penstock width 600 mm

Penstock height 600 mm

Spindle length 5150 mm

Material SS 316 L



2 x Multi Rake Screen



Penstocks with 3 Sides Ring



1 x Screening Washing Conveyor



Penstocks with 3 Sides Ring