

strategic ventures

(IR 4.0) 3D PRINTING FOR SAND FILTER LATERALS

By: Rakan Banna 12/02/2020

Agenda

- 1. Background
- 2. Current Challenges
- 3. Innovative Solution
- 4. Benefits

What is the Major challenge for water facilities?



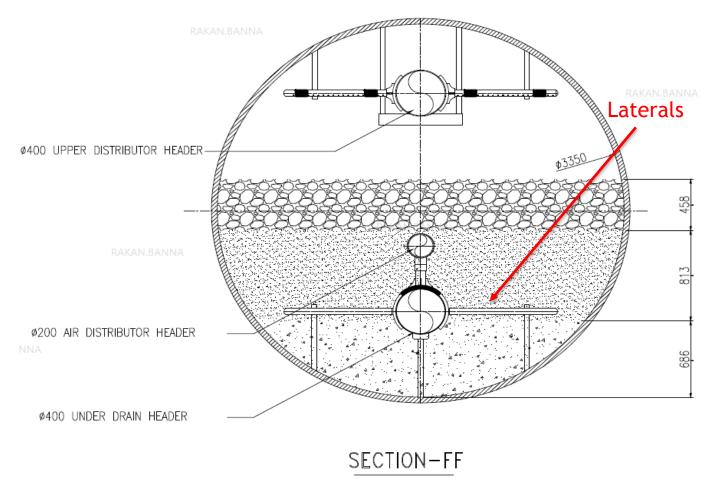
Background



World's Largest Water Treatment Facility



Sand Filter Process Description

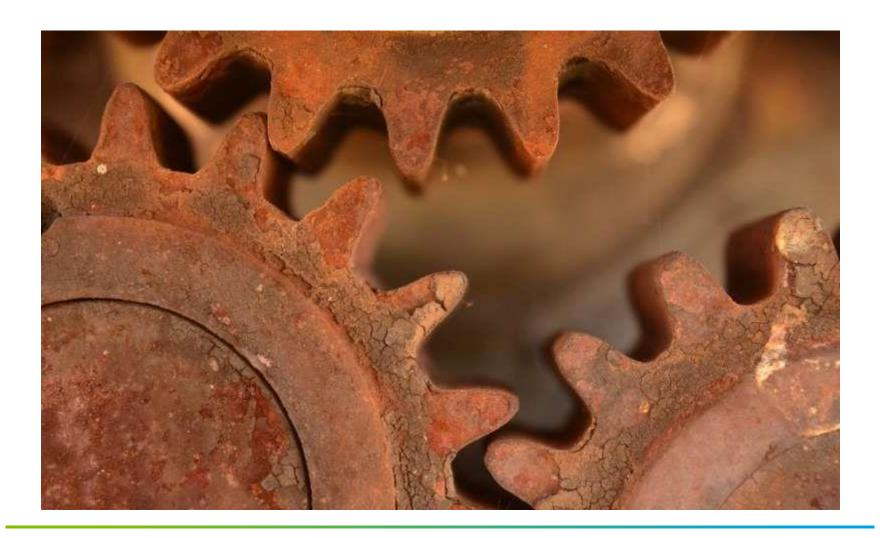


PAKAN BANNA



Current Challenges

1. Corrosion and Harsh Environment



2. Sand Filter Media Passing



3. Treated Seawater Quality Specification for Oil Fields



4. Repair Cost



5. Equipment Downtime



6. High Grade Metallic Materials



Innovative Solution



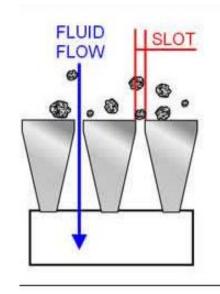
Idea Development



Metrology Assessment



Technical Evaluation



Design Specifications



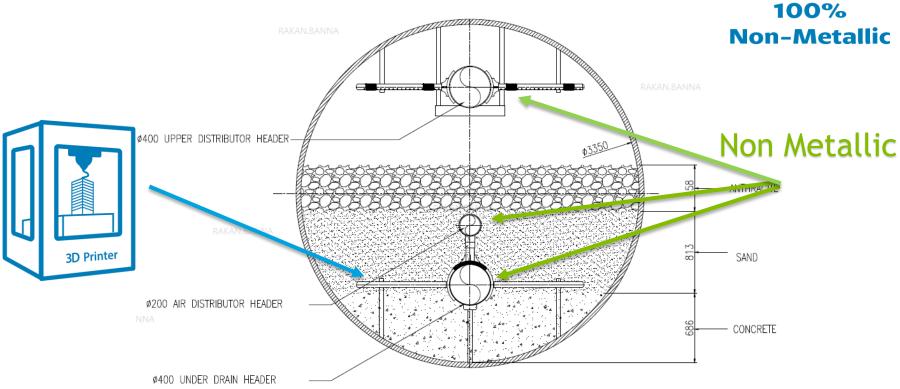
Process Parameter



Specialist Consultant

Innovative Solution

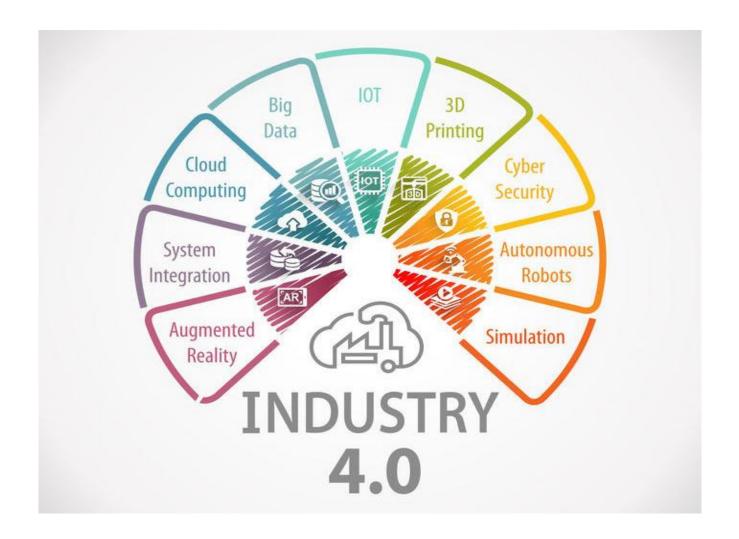




SECTION-FF

ΡΔΚΔΝ ΒΔΝΝΙ

IR 4.0 - Additive Manufacturing



Benefits











Meeting
Seawater Quality
Specification for
Oil Reservoir
Fields



iktva اکتفاء

70 by 21

70% localization by the year 2021

ساهمنا عن طريق **اكتفاء** في زيادة صادرات مورّدينا بنسبة

%5

Through **iktva** we have increased suppliers' exports by

%

opyright note text (8pt)

Always Ask Why?

The Sky is the limit

Thank you



