



LIFE PROJECT - SEKRET

LIFE12 ENV/IT/000442

"Sediment ElectroKinetic REmediation Technology for heavy metal pollution removal"

DELIVERABLE ACTION B1

“Design and specification of demonstration plant”

Drawing n.5 – Piping and instrumentation diagram



UNIVERSITÀ DI PISA



Port Authority Livorno

WEST
Systems

Lambda

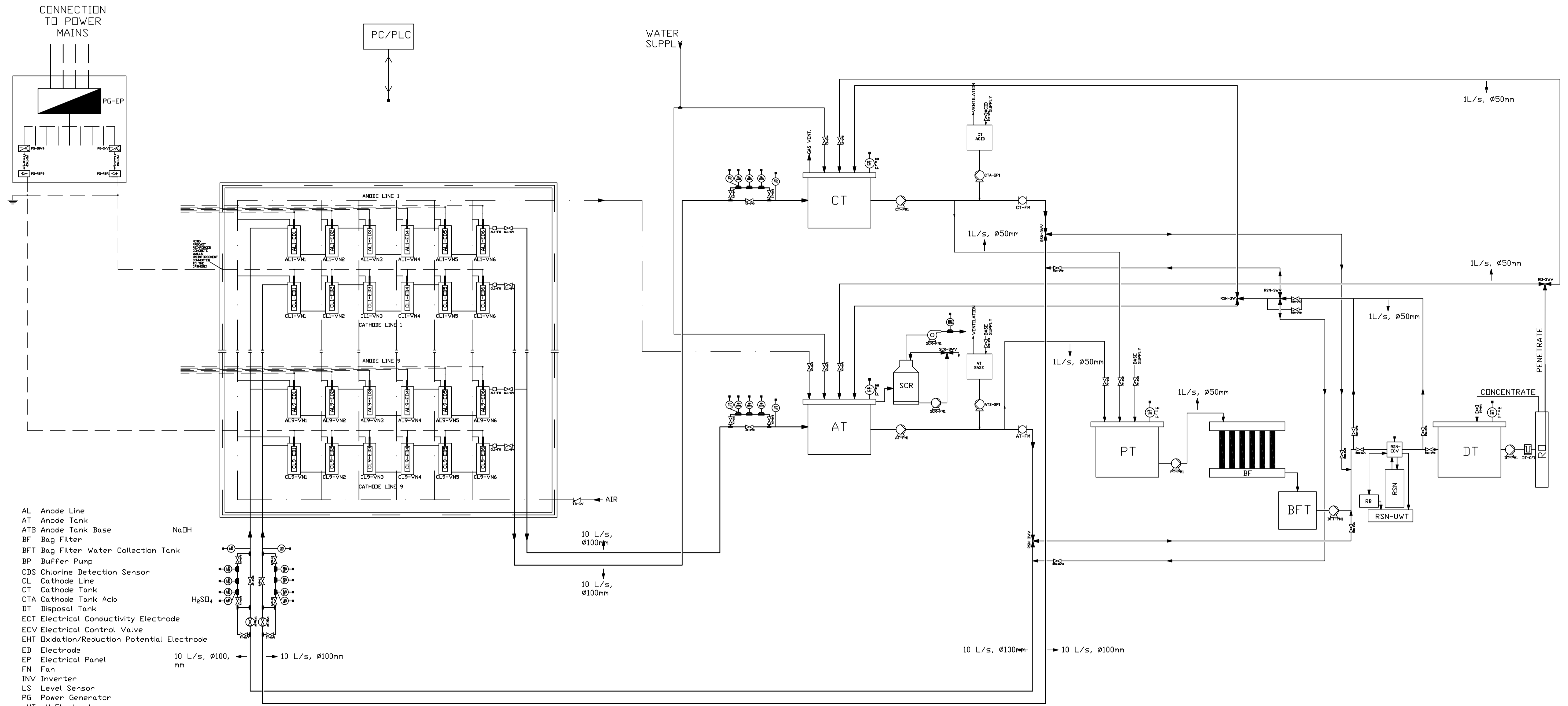


Consult

REGIONE TOSCANA



SAPIENZA
UNIVERSITÀ DI ROMA



LEGENDA

- Anode Distribution Pipe (Ø100mm, HDPE, 10L/s)
 - Anode Collection Pipe (Ø100mm, HDPE, 10L/s)
 - Cathode Distribution Pipe (Ø100mm, HDPE, 10L/s)
 - Cathode Collection Pipe (Ø100mm, HDPE, 10L/s)
 - Anode Pipe (Ø50mm, HDPE, 1,1L/s)
 - Cathode Pipe (Ø50mm, HDPE, 1,1L/s)
 - Gas Pipe
-
- FM Flow meter
 - GV General Valve
 - CV Check Valve
 - PCV Pressure Control Valve
 - 3WV Three Way Valve
 - CF Cartridge Filter

- AL Anode Line
- AT Anode Tank
- ATB Anode Tank Base
- BF Bag Filter
- BFT Bag Filter Water Collection Tank
- BP Buffer Pump
- CDS Chlorine Detection Sensor
- CL Cathode Line
- CT Cathode Tank
- CTA Cathode Tank Acid
- DT Disposal Tank
- ECT Electrical Conductivity Electrode
- ECV Electrical Control Valve
- EHT Oxidation/Reduction Potential Electrode
- ED Electrode
- EP Electrical Panel
- FN Fan
- INV Inverter
- LS Level Sensor
- PG Power Generator
- pHT pH Electrode
- PM Pump
- PT Precipitation Tank
- RB Regeneration Bath
- RO Reverse Osmosis
- RSN Resines
- SCR Scrubber
- TB Treatment Basin
- TMC Thermal Magnetic Circuit Breaker 16A - Type C
- TT Temperature Sensor
- UWT Used Water Tank
- VN Vein (Tube)

LIFE+ Environment Policy and Governance
PROJECT LIFE12 ENV/IT/000442

Project title: Sediment Electrokinetic Remediation Technology for heavy metal pollution removal

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Misure in: mt Approved by: **Ing. Simone Neri**

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