

swicssy exclusivity program

**TECHNICAL QUESTIONS**

***When answering the questions, please refer to the desalination plant where the SWICSSY Pilot will occur.***   
**Please send the filled-out form to breda.kolmanic@i-tech.si**

What type of RO membranes are you using?

Producer: Toray

Membrane type: TM720

How old are the membranes that will be equipped with SWICSSY?

Less than 1 year 1-2 years 2-5 years 5-10 years more than 10 years

Almost 1 yr, 2 yrs, 2-3 yrs

What is the temperature range of the seawater? Brakish 10-12 mili simens 25 degree

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What is the expected water flow and pressure in the permeate tube inside the RO membrane?

0,5 not more than 1 bar

7PVs, 6 ROMs, total permeate 55 m3/h, x m3/h

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What are the expected conductivity values at the beginning and end of the pressure vessel at the first and the last RO membrane?

We cannot follow the 1st, 2nd, 3rd ROM.

The values of the last ROM is: Feed 10 mS, permeate 70 μS

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Is there an existing Wi-Fi or Cellular system in place?

YES NO

As part of the SWICSSY system, the stack node requires a power supply. Is there an available power source to connect the stack node?

YES NO

The stack node unit can be installed on a wall or in a cabinet. Is there suitable wall space or a dedicated cabinet in the desalination plant where the stack node can be installed, ensuring that the chosen location is not in contact with water?

YES NO

Are there any specific challenges in the desalination plant that need to be considered (e.g., external power washing of pressure vessels)?

NO

YES, please describe

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What is the size of the rack?

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What are the distances between adjacent pressure vessels?

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**PROCESS QUESTIONS**

How often do you clean the RO membranes?

More than 1 x month 1 x month every 2 months 4 x year

2 x year 1 x year every 2 years

What chemicals do you use for cleaning?

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How often do you perform probing and mapping?

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| --- | --- | --- | --- |
| PROBING | | MAPPING | |
| More often than 1 x month |  | Every week |  |
| 1 x month |  | Every 2 weeks |  |
| Every 2 months |  | 1 x month |  |
| 4 x year |  | Every 2 months |  |
| 2 x year |  | 2 x year |  |
| 1 x year |  | 1 x year |  |

