



SPECIFICATION OF THE ESSENTIAL ORDER CONDITIONS (SEOC)

TECHNICAL PART (PART II)

Continuous plant research – part 2 - (fe. Water chemical composition, nutrients, mix etc.)
as a part of: "Establishment of Research and Development Center for innovative methods of phenotyping and management of ornamental plants cultivation".

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1. Detailed description

As a part of R&D process aimed to getting knowledge regarding to parameters optimal for ornamental plants production, focused to plant production increase, JMP Flowers Grupa Producentów is going to outsource continuous plant research (fe. Water chemical composition, nutrients, mix etc.)

2. Technical specification

Research services will be for water chemical composition according to below data:

- No. of samples per month – 19; (100 samples).
- Samples will be delivered by JMP Flowers in 250 ml bottles
- Research range:

Parameter	Unit	Result
pH		
EC	[mS/cm]	
NH ₄	Cations [mmol/l]	
K	Cations [mmol/l]	
Na	Cations [mmol/l]	
Ca	Cations [mmol/l]	
Mg	Cations [mmol/l]	
NO ₃	Anions [mmol/l]	
Cl	Anions [mmol/l]	
S	Anions [mmol/l]	
HCO ₃	Anions [mmol/l]	
P	Anions [mmol/l]	
Fe	Micro-nutrients[μmol/l]	
Mn	Micro-nutrients[μmol/l]	

Zn	Micro-nutrients[$\mu\text{mol/l}$]	
B	Micro-nutrients[$\mu\text{mol/l}$]	
Cu	Micro-nutrients[$\mu\text{mol/l}$]	
Mo	Micro-nutrients[$\mu\text{mol/l}$]	
Si	[mmol/l]	
K/Ca	-	

3. Scope of works

1. Execution of research during the shelf life.
2. Research report preparation with water purification recommendation.
3. Tests results history register

4. Place of performance

Contractor Labs

5. Responsibility

Responsible for the implementation of the Investor will be: Wojciech Barański

Responsible for the implementation of the Contractor will be Project Manager.