

GENERAL INFORMATION	•		
Client:			
Site:			
TECHNICAL INFORMATION	ON		
Type of Plant etc			
Conventional			
Containerised			
Skid Mounted			
For drinking water			
For irrigation			
What plot size is available (I $\times$ b	x h)		
Design Requirements			
Plant capacity			
Design water temperature			
Ambient air temperature min.			
Ambient air temperature max.			
Electricity Supply Volts / Cycles			
Raw Water Analysis			
Analysis	As ppm of ior	ns, CaCO3 or meq/l	
Sodium	Na	<del></del>	
Potassium	K		
Calcium	Ca		
Magnesium	Mg		
Chloride	CI-		
Sulfate	SO <sub>4</sub> <sup>2</sup> -		
Bicarbonate	HCO <sub>3</sub> -		
Total dissolved solids			ppm
Suspended solids			ppm
pH value			
Temp minimum			°C
	Client:  Site:  TECHNICAL INFORMATION Type of Plant etc  Conventional Containerised Skid Mounted For drinking water For irrigation What plot size is available (I x b)  Design Requirements  Plant capacity Design water temperature Ambient air temperature max. Electricity Supply Volts / Cycles  Raw Water Analysis  Analysis Sodium Potassium Calcium Magnesium Chloride Sulfate Bicarbonate Total dissolved solids Suspended solids Suspended solids pH value	TECHNICAL INFORMATION  Type of Plant etc  Conventional Containerised Skid Mounted For drinking water For irrigation  What plot size is available (I x b x h)  Design Requirements  Plant capacity Design water temperature Ambient air temperature min. Ambient air temperature max. Electricity Supply Volts / Cycles  Raw Water Analysis  Analysis Analysis Analysis Analysis Calcium Ca Magnesium Chloride Sulfate SO4²- Bicarbonate Total dissolved solids Suspended solids Suspended solids Suspended solids Suspended solids Suspended solids Suspended solids	Client:  Site:  TECHNICAL INFORMATION  Type of Plant etc  Conventional  Containerised  Skid Mounted  For drinking water  For irrigation  What plot size is available (l × b × h)  Design Requirements  Plant capacity  Design water temperature  Ambient air temperature min.  Ambient air temperature max.  Electricity Supply Volts / Cycles  Raw Water Analysis  Analysis  As ppm of ions, CaCO3 or meq/l  Sodium  Na  Potassium  K  Calcium  Ca  Magnesium  Mg  Chloride  CI-  Sulfate  Bicarbonate  HCO3-  Total dissolved solids  Suspended solids  Suspended solids  Pl value

# Questionnaire

## Desalination



Temp maximum			°C
If other parameters are ava	ilable, please compl	ete them below.	
Analysis	As ppm of ic	ons, CaCO3 or meq/l	
Strontium	Sr*		
Barium	Ba*		
Iron	Fe*		
Manganese	Mn		
Carbonate	CO <sub>3</sub> <sup>2</sup> -		
Free Carbon dioxide	$CO_2$		
Bromide	Br-		
Boron	В		
Fluoride	F-*		
Silica	SiO <sub>2</sub> *		
Dissolved oxygen	$O_2$		ppm
Hydrogen sulfide	H <sub>2</sub> S*		ppm
Oil (by UV or IR)*			ppm
Odour			
Colour			
In case of well water or o must be available too.	ffshore platform in:	stallation analysis mark	ed with asterisk*
Required Product Water	er Quality		
Total dissolved solids max.	at design T	ppm	
Maximum chloride limit		ppm	
Maximum boron limit		ppm	
Is a positive LSI required?			
What standard is to be app	lied. WHO. EU etc		

2.4

# Questionnaire

Desalination



# 3.0 **SCOPE OF SUPPLY**

3.1	Intake	
	Not included	
	Open sea	
	Beach wells	
	Others	
3.2	Pipelines required for	
	Raw water to the treatment plant	y/n
	If yes, length	m
	Geodet height difference	m
	Treated water to	
	Existing storage tank	y/n
	If yes, length	m
	Geodet height difference	m
	Network (work press)	bai
	If yes, length	m
	Geodetical height difference	m
	Not required	<del></del>
3.3	Storage tanks required for	
	Raw water	y/n
	If yes, capacity	m³
	Туре	
	Product / Treated water	y/n
	If yes, capacity	m³
	Туре	
3.4	Concentrate disposal	
	Pipeline length	m
	Geodetical height difference	m



#### 4.0 CONTRACTUAL ARRANGEMENTS

Type of Contract. EPC, BOO, BOOT etc	
Who is the Client	
Where is the funding from	
What security of payment is proposed	
Any specific training requirements for Client personnel	
Is there an O&M period and if so how long	

### 4.0 **SPECIAL CLIENT'S REQUESTS**

Please describe if you have any special requirements, which were not mentioned in the questionnaire.

## **Additional Comments**

- 1. Points 2.2, 2.3, 2.4 from desalination questionnaire must be filled in.
- 2. More information about raw water supply is required:
  - From where the raw water is taken existing structures, where will it be constructed, brief description of existing intake structure and chemical dosing would be beneficial (how deep is intake structure placed, are there possible disturbances of the bottom sediments, how far is the suction end from the shore line, is the raw water pre-screened or pre-treated and how etc.)
  - Description of deep wells for brackish water is required materials of construction, depth of the aquifer, pressure
  - Description of the raw water supply to desalination unit pipe dimensions and material, minimum and maximum pressure.
  - Description of the waste water disposal standards and existing drainage system if discharges from desalination plant are going to be connected to these systems. Are there some restrictions from the point of quality and quantity (max. average flow and max peak flow, quality restrictions)?
  - Description of the waste water disposal and drainage system as in point 3.4 of our questionnaire if we have to supply this system.

# Questionnaire

### Desalination



- 3. Availability of the service water, potable water, steam for heating please specify available.
- 4. Is there an existing desalination plant on the site or in the vicinity using the same water source. If so please provide operational details of this plant, based on the information in this questionnaire.