

## Layout-Questionnaire for HYDROMATRIX® Projects

Name of project:

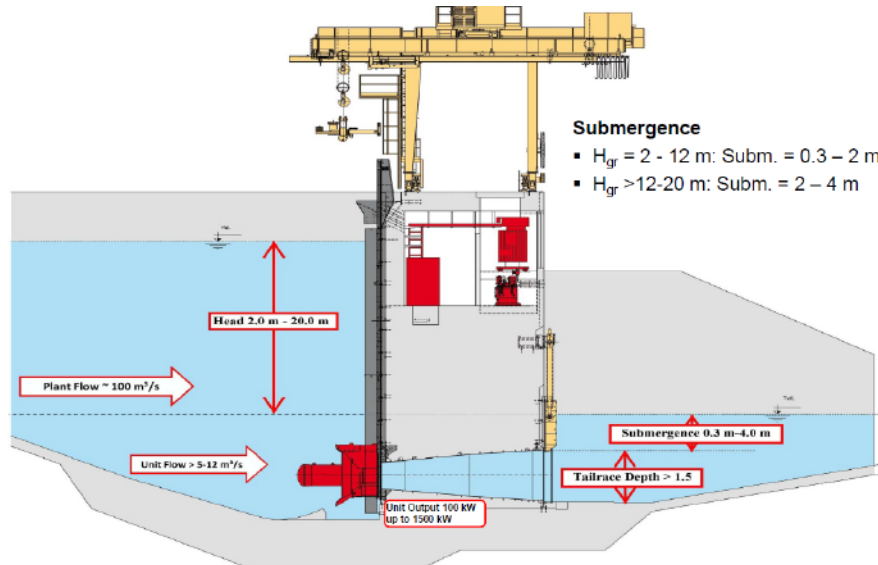
Location of project (city, country):

Customer Details		Consultant / Technical Planning Office	
Mr	Mrs	Mr.	Mrs.
Name:		Name:	
Company:		Company:	
Street, Nr:		Street, Nr:	
Postal code, city:		Postal code, city:	
Country:		Country:	
Phone:		Phone:	
E-mail:		E-mail:	

Location characteristics and Boundary Conditions		(multiple choice is possible)
River/Site name:		
(Latitude):	° ' " N	(Longitude): ° ' " W
<b>Type of Structure:</b>		
New Construction	Irrigation Dam	Navigation Dam
Unused ship lock	Intake Structure	Spillway
Use of residual water at existing Hydro plant		
Other: Please specify		
<b>Flood discharge requirements:</b>		
	Yes	No
If yes; max.	m <sup>3</sup> /s	
Max HWL	m a.s.l.	Max TWL m a.s.l.
Please provide discharge characteristic & operating modes		
<b>Debris:</b>		
Tree trunks	Small branches, leaves	Industrial waste (plastic bags, etc.)
<b>Sediment Transport:</b>		
Quantity :	Average particle concentration during operating hours	g/m <sup>3</sup> (ppm)
Sediment type:	Silt	Sand
	Gravel	Glacial moraine
<b>Water Quality</b>		
River water	Brackish/sea water	industrial waste water
Water analysis available	Yes	No. If yes please provide a copy.

## Hydrology Data

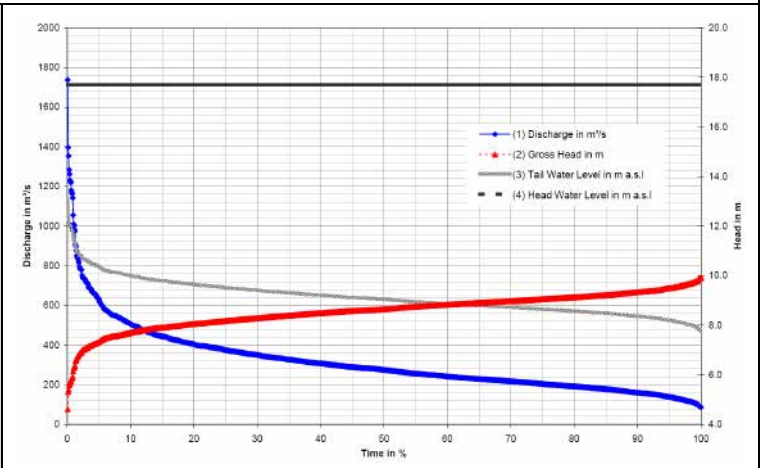
Is hydrology data available?	Yes	No	If yes please provide the following data
<b>1. Basic Operating Data for preliminary layout</b>			
Discharge $Q_{min}$	$m^3/s$	Head water level max.	m a.s.l.
Discharge $Q_{max}$	$m^3/s$	Head water level min	m a.s.l.
Rated discharge $Q$	$m^3/s$	Tail water level max	m a.s.l.
		Tail water level min	m a.s.l.



## 2. Detailed Hydrology Data

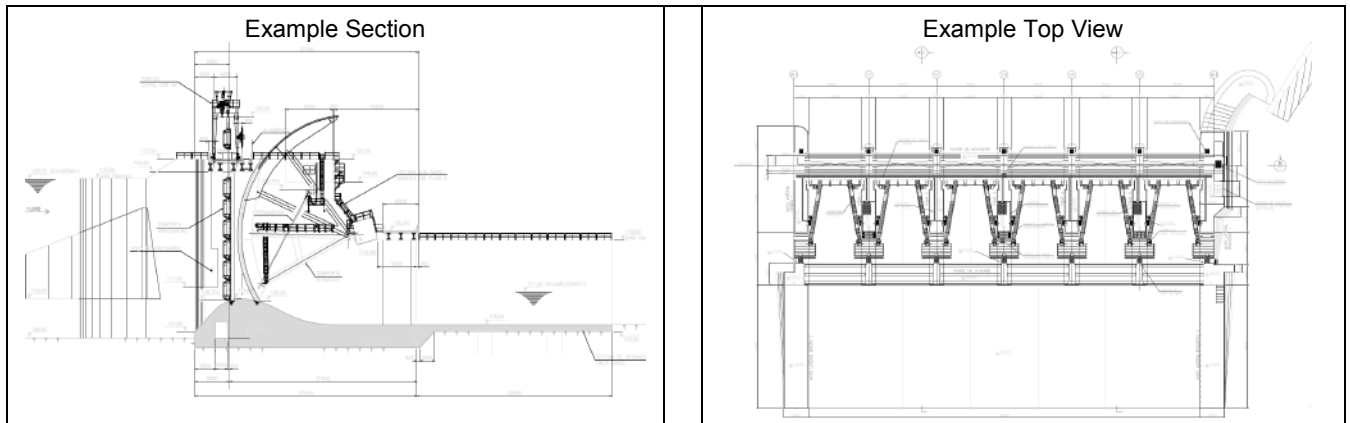
-Discharge vs. Time (flow duration curve)  
 -Head water level vs. discharge  
 -Tail water level vs. discharge

Please provide data in excel format or charts too.



## Civil Structure

Are drawings of the existing dam / Weir / Canal structure available?	Yes	No
If yes please provide the following drawings with main dimensions and associated photos:		
Sectional view incl. main dimensions and elevations (HWL;TWL, Sill)	Top view incl. main dimensions	



**Electrical Data**

Voltage at point of interconnection (PCC)	kV
Distance of the site to the PCC	Km
Name of transmission system operator	

**Commercial / Financial Aspects**

What is the current and/or expected power rate in the area (Feed-in tariff)?	€/kWh
What is the expected inflation rate for the tariff?	% / Year
	Yes    No
Is project part of an Energy Master Plan? If yes, please provide specifics about timeline and priorities	
Is government support available during development, construction and operation?	
Licensing, administrative procedures? If yes, please provide specifics	

**Project Partners & Stakeholders (if already known)**

Authority granting plant concession/License:  
 Environmental Authorities:  
 Shareholder(s) of Project Company:  
 Main Project Developer:  
 Prospective Civil Contractor:  
 Power Off-taker:

**Comments & Additional Information**

This QUESTIONNAIRE was completed by: NAME: COMPANY:	Date:  /    / Day / Month / Year
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Please send the filled in Questionnaire to [Hydromatrix@andritz.com](mailto:Hydromatrix@andritz.com)