



REQUIRED PROJECT DATA FOR HYDROPOWER PLANTS

VOITH

Friday, 13 August 2010

Planned date of call for bid (yyyy/mm/dd): _____

Planned bid due date: _____

Planned date of award: _____

New project

Modernization project

Name of original equipment supplier (OEM):

Budget offer (unbinding)

Firm offer

Financial solution available

Yes No

Financing planned through: _____

Project name: _____ [-]

Name of client: _____ [-]

Country/State: _____ [-]

Waterway/ name of river: _____ [-]

Number of units: _____ [-]

Gross-Head- rated (h_{rat}): _____ [m]

Gross Head- max: ($h_{rat\ max}$): _____ [m]

Net Head (h_{net}): _____ [m]

Discharge- rated (Q_{rat}): _____ [m³/s]



REQUIRED PROJECT DATA FOR HYDROPOWER PLANTS

VOITH

Discharge- max (Q_{max}):	_____	[m ³ /s]
Discharge- min (Q_{min}):	_____	[m ³ /s]
Operating Speed:	_____	[rpm]
Attitude of power house:	_____	[masl]
Length of penstock (m):	_____	[m]
Diameter of penstock:	_____	[m]
Material of penstock:	_____	[-]
Generator Voltage:	_____	[kV]
Grid Frequency:	_____	[hz]
Power Factor:	_____	[-]
Synchronous <input type="checkbox"/>	A-Synchronous <input type="checkbox"/>	
Grid voltage:	_____	[kV]
Parallel operation <input type="checkbox"/>	Isolated operation <input type="checkbox"/>	
Max. speed of Generator:	_____	[rpm]
Max. Pressure:	_____	[MPa]
Required Inertia:	_____	[tm ²]



REQUIRED PROJECT DATA FOR HYDROPOWER PLANTS

VOITH

REQUIRED SCOPE OF SUPPLY

YES

NO

Turbine	<input type="checkbox"/>	<input type="checkbox"/>
Inlet valve	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic governor	<input type="checkbox"/>	<input type="checkbox"/>
Digital governor	<input type="checkbox"/>	<input type="checkbox"/>
Generator	<input type="checkbox"/>	<input type="checkbox"/>
Flywheel	<input type="checkbox"/>	<input type="checkbox"/>
Electrical equipment	<input type="checkbox"/>	<input type="checkbox"/>
Control system	<input type="checkbox"/>	<input type="checkbox"/>
SCADA	<input type="checkbox"/>	<input type="checkbox"/>
Remote control	<input type="checkbox"/>	<input type="checkbox"/>
Transformer	<input type="checkbox"/>	<input type="checkbox"/>
Substation	<input type="checkbox"/>	<input type="checkbox"/>
Spare parts	<input type="checkbox"/>	<input type="checkbox"/>
Shipment according Incoterm	<input type="checkbox"/>	<input type="checkbox"/>
Erection complete	<input type="checkbox"/>	<input type="checkbox"/>
Erection supervision	<input type="checkbox"/>	<input type="checkbox"/>
Commissioning	<input type="checkbox"/>	<input type="checkbox"/>
Comission supervision	<input type="checkbox"/>	<input type="checkbox"/>
Training	<input type="checkbox"/>	<input type="checkbox"/>