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Questionnaire for Hydropower Plant Price Quotation

I. Contact data

PROJECT NAME
(please reference on all correspondence)

PROJECT SITE
(location and country)

Contact name | Company

Address

ZIP code / City | Country

Phone | Mobile

E-mail | Web

☐ Developer ☐ Consulting Agency Name of Project Owner

II. Status

☐ Feasibility study ☐ Contract pending; construction scheduled for:

☐ Public tender Deadline for submitting an offer:

☐ Construction of a new power plant ☐ Modernisation of an existing plant

Water license / permit existing ☐ yes ☐ no ☐ in progress

☐ Sketch/plan/pictures of project site attached

III. Technical data (Equipment design, calculation, output and performance guarantees will be based on the head and flow data provided and confirmed!)

☐ Maximal annual power generation preferred ☐ Minimal maintenance requirements preferred

1.a) Gross/ static head in m
(vertical distance between upstream and downstream level or to turbine floor elevation)

b) Net head in m
(in reference to 1.a) less friction losses at rated flow)

measured to: ☐ Tail water level ☐ Turbine floor elevation

2. Elevation in m

a) Upper water level

b) Tail water level
at min. flow
at max. flow
at flood condition

3. Available flow in liters/sec

☐ Flow (please indicate average flow for each month!)

January		l/s	May		l/s	September		l/s
February		l/s	June		l/s	October		l/s
March		l/s	July		l/s	November		l/s
April		l/s	August		l/s	December		l/s

☐ Flow duration curve is attached to this questionnaire

☐ Flow is constant. Reason:

4. Altitude of project site above sea level in m

5. Power output expected at generator terminals in kW

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6. Water conveyance

☐ Open canal:		length in m		width in m		depth in m	
☐ Penstock:	1)	length in m		int. Ø in mm		material	
	2)	length in m		int. Ø in mm		material	
	3)	length in m		int. Ø in mm		material	
		max. permissible pressure rise of penstock in bar					

7. Generator

☐ Synchronous generator ☐ Asynchronous/Induction generator

Frequency in Hz ☐ Generator voltage in V ☐ Grid voltage in V ☐

8. Operation mode

☐ Off-grid (autonomous/stand-alone energy production for the supply of an isolated grid)

☐ On-grid (run-of-river operation, grid parallel power supply into utility grid)

☐ Off-grid plus On-grid in combination

9. Water quality

☐ Potable water ☐ Sea water ☐ Highly abrasive/silt content ☐ pH value ☐

☐ Max. temperature in °C ☐ ☐ Others ☐

IV. Scope of supplies

☐ Turbine
☐ Speed increaser
☐ Generator
☐ Service valve
☐ Step-up transformer
☐ Medium voltage switch board
☐ Trash rack cleaner (please complete TRC questionnaire)

☐ Automation:
- ☐ Turbine regulator/governor
- ☐ Switch board for grid connection
  - ☐ SMS warning system
  - ☐ Visualisation/display
  - ☐ SCADA-system

V. Comments

Date, place

Signature

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