

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 b) Net head in m
(vertical distance between upstream and downstream level or to turbine floor elevation) (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	<input type="text"/>	l/s	May	<input type="text"/>	l/s	September	<input type="text"/>	l/s
February	<input type="text"/>	l/s	June	<input type="text"/>	l/s	October	<input type="text"/>	l/s
March	<input type="text"/>	l/s	July	<input type="text"/>	l/s	November	<input type="text"/>	l/s
April	<input type="text"/>	l/s	August	<input type="text"/>	l/s	December	<input type="text"/>	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

6. Water conveyance

<input type="checkbox"/> Open canal:	length in m	<input type="text"/>	width in m	<input type="text"/>	depth in m	<input type="text"/>
<input type="checkbox"/> Penstock:	1) length in m	<input type="text"/>	int. Ø in mm	<input type="text"/>	material	<input type="text"/>
	2) length in m	<input type="text"/>	int. Ø in mm	<input type="text"/>	material	<input type="text"/>
	3) length in m	<input type="text"/>	int. Ø in mm	<input type="text"/>	material	<input type="text"/>
	max. permissible pressure rise of penstock in bar					<input type="text"/>

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

<input type="checkbox"/> Turbine	<input type="checkbox"/> Automation:
<input type="checkbox"/> Speed increaser	<input type="checkbox"/> Turbine regulator/governor
<input type="checkbox"/> Generator	<input type="checkbox"/> Switch board for grid connection
<input type="checkbox"/> Service valve	<input type="checkbox"/> SMS warning system
<input type="checkbox"/> Step-up transformer	<input type="checkbox"/> Visualisation/display
<input type="checkbox"/> Medium voltage switch board	<input type="checkbox"/> SCADA-system
<input type="checkbox"/> Trash rack cleaner (please complete TRC questionnaire)	

V. Comments

Date, place

Signature