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QUESTIONNAIRE for hydropower station

Your name and address:

Company name .....

Responsible person .....

Street .....

Country/Zip Code/City .....

Phone .....

Fax .....

E-Mail: .....

1. Project name and location .....

2. Gross head ..... m
   (vertical distance between weir level and tailrace level)

3. Net head ..... m
   (gross head minus losses due to
   friction in penstock and other losses)

4. Distance between turbine axis and tail water ..... m

5. Elevation of turbine axis and tail water ..... m

6. Which quantity of water (discharge) is available?

   Max. flow ..... l/sec at ..... months/year

   Normal flow ..... l/sec at ..... months/year

   Min. flow ..... l/sec at ..... months/year

7. Describe the way of water to turbine:

	Section I	Section II	Section III
• Channel length (please attach sectional drawing)	..... m	..... m	..... m
• Penstock length	..... m	..... m	..... m
• Diameter inside	..... mm	..... mm	..... mm
• Material	……..	……	…….
• Wall thickness	..... mm	..... mm	..... mm
• Maximum pressure surge acceptable	..... %		

8.Mode of operation:

- The unit will feed into a public grid (parallel operation only) _
- The unit will be operated separately from the grid (isolated operation) and parallel to the national grid _
- The unit will be operated isolated from the national grid _

9. Grid voltage ..... kV

10. Grid frequency ..... Hz

11. Output:

- Maximum acceptable output to the grid/ consumers ..... kW
- Maximum momentary load to be switched on in case of isolated operation ..... kW

12. • Type of generator _ synchronous _ induction
- Favored voltage of generator ..... kV

13. In case of an existing hydropower station, please enclose design drawings.

Expected scope of supply:

- Turbine _
- Governor _
- Gear Box _
- Generator _
- Low Voltage Control _
- Medium Voltage Switchgear _
- High Voltage Switchgear _
- Transformer _
- Consulting service _