ANDRITZ Hydro

HYDROMATRIX®

Application Criteria, Questionnaire

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Application Criteria

- Available plant discharge from ~ 60 m^3/s
- Available head from 2 m up to 25 m
- Minimum submergence 1.5 m below tailwater
- Unit output from 100 kW up to ~ 1500 kW
- Grid connection in close vicinity
- Structure available & suitable for HYDROMATRIX®

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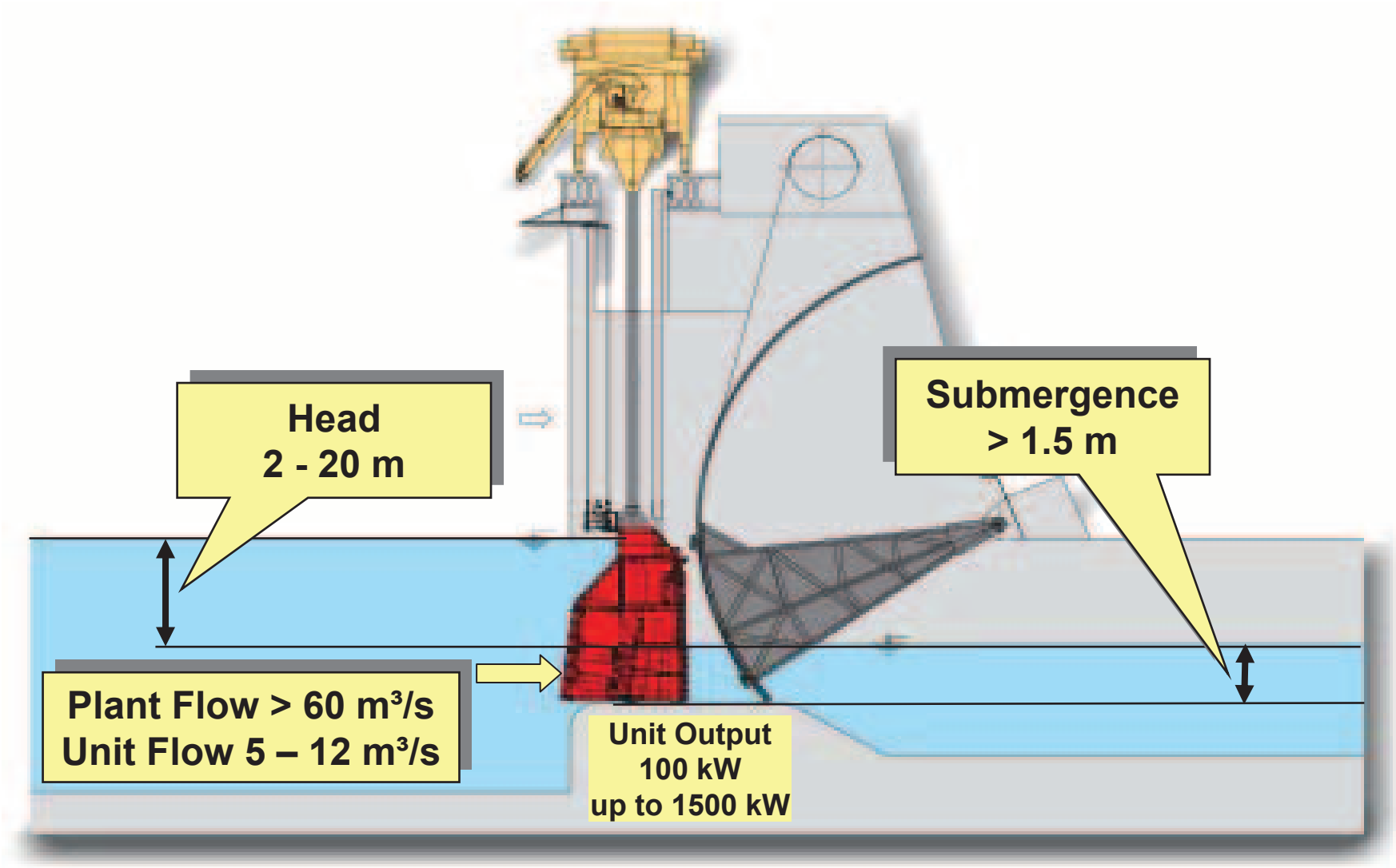
Application Range



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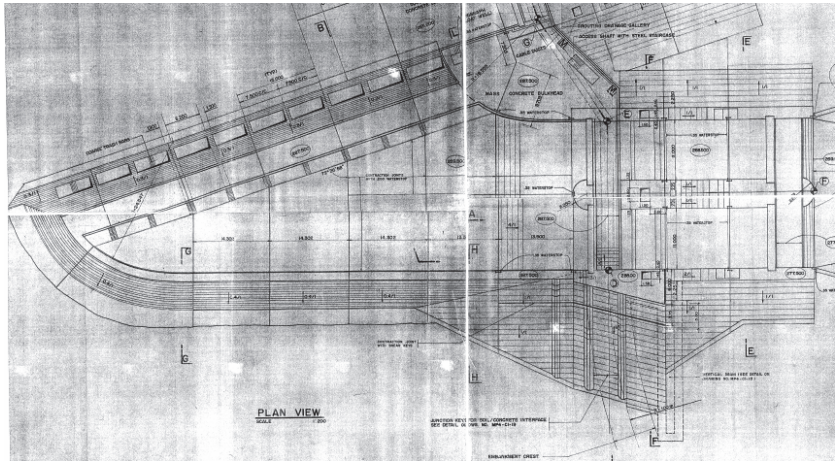
Required data for budgetary proposal

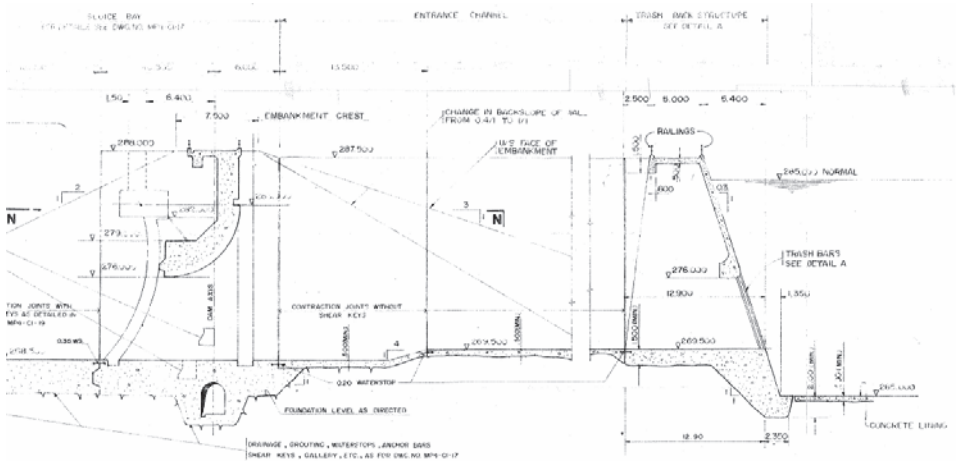
Dam Dimensions:

- Top view of the existing weir or dam including main dimensions and available space for HYDROMATRIX®
- Cross section of the existing weir or dam including main dimensions and elevations

Example for typical plan view



Example for typical sectional view



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Required data for budgetary proposal

Hydrological Data for budget layout (as data file as far as possible):

- **Hydrological Data for preliminary design:**
  - Head water level (min and max)
  - Tail water level (min and max)
  - Bottom elevation
  - Head range (min and max)
  - Rated Head
  - Rated Discharge

- **Hydrological Data for detailed calculations:**
  - Discharge vs time
  - Head water level vs time (or discharge)
  - Tail water level vs time (or discharge)

- **Hydrological Boundary Conditions**
  - Flood discharge requirements through HM plant? (if yes, how many m^3/sec at maximum waterlevel)

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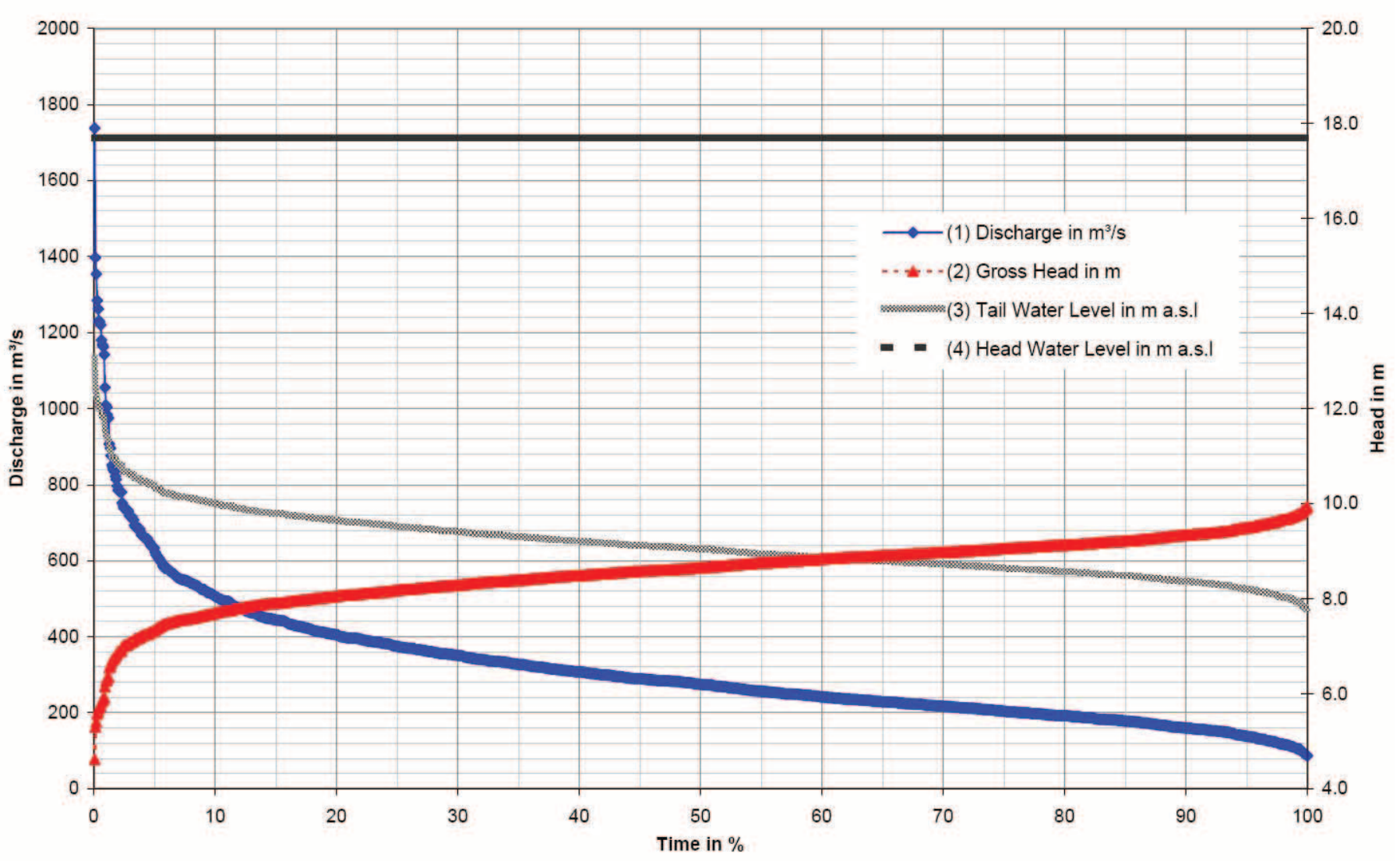
Example for detailed hydrological data



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Content of the budgetary proposal

- **Preliminary technical data of HYDROMATRIX®as:**
  - **Number of units**
  - **Runner diameter**
  - **Unit output**
- **Layout drawings**
- **Preliminary annual energy calculation (if detailed hydrological Data available)**
- **Preliminary time schedule**
- **Budget price**