

(PREVIEW)

IS 12800 (Part 1) : 1993

Indian Standard

**GUIDELINES FOR SELECTION OF TURBINES,
PRELIMINARY DIMENSIONING AND
LAYOUT OF SURFACE HYDRO – ELECTRIC
POWER HOUSES**

PART 1 MEDIUM AND LARGE POWER HOUSES

1 SCOPE

This standard (Part 1) lays down guidelines for preliminary dimensioning for surface hydroelectric power houses with reaction turbines having vertical shaft arrangement.

NOTE - These guidelines will generally apply to unit capacities from 5 MW to 500 MW.

2 REFERENCES

The Indian Standards listed below are necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
4410 (Part 10) : 1988	Glossary of terms relating to river valley projects : Part 10 Hydro-electric power station including water conductor system (first <i>revision</i>)
5496 : 1969	Guide for preliminary dimensioning and layout of elbow type draft tubes for surface hydel power stations
7418 : 1991	Criteria for design of spiral casing (concrete and steel) (first <i>revision</i>)
7326 (Part 1) : 1992	Penstock and turbine inlet butterfly valves for hydropower stations and systems: Part 1 Criteria for structural and hydraulic design
12837 : 1989	Hydraulic turbines for medium and large hydroelectric power houses - Guidelines for selection
7332 (part 1) : 1991	Spherical valves for hydropower stations and systems: Part 1 Criteria for structural and hydraulic design