

# Glossary of Definitions, Terms and Abbreviations

## 1 Definition of Large Dam

A large dam is defined as one which is:

- (a) more than 15 metres in height measured from the lowest point of the general foundations to the 'crest' of the dam,
- (b) more than 10 metres in height measured as in (a) provided they comply with at least one of the following conditions:
  - (i) the crest is not less than 500 metres in length
  - (ii) the capacity of the reservoir formed by the dam is not less than 1 million cubic metres
  - (iii) the maximum flood discharge dealt with by the dam is not less than 2000 cubic metres per second
  - (iv) the dam is of unusual design

No dam less than 10 metres in height is included.

## 2. Name of Dam

(Column 2 of the Register)

The official name of the dam is shown in block letters. Where another name is in common use, that name is shown in brackets. If the name of the reservoir is different from the name of the dam, then the reservoir name is also shown followed by (res).

In the case of more than one dam creating a single reservoir, then the dams are listed in a group with the main dam shown first and the auxiliary dams shown in small print.

## 3. Year of Completion

(Column 3 of the Register)

The year shown when the main dam structure was completed as advised by the owner.

Where the dam has been raised, then this is indicated in the footnotes.

If the dam is under construction, then the symbol 'C' is used followed by the estimated year of completion.

## 4. River (Column 4 of the Register)

The name shown is the name of the river or stream on which the dam is built.

Where the symbol 'tr' precedes the name, then the dam is built on an unnamed tributary of that river or stream.

If the dam is not built on a watercourse, then 'offstream' is shown.

## 5. Nearest City (Column 5 of the Register)

The nearest town or city of such a size that would be shown on a general map of the State is shown.

## 6. Type (Column 7 of the Register)

The type of dam is shown as follows:

Symbol	Type
TE	Earthfill embankment
ER	Rockfill embankment
PG	Concrete Gravity
CB	Concrete Butress
VA	Concrete Arch
MV	Multiple Concrete Arch

The symbol VA includes such variations as constant radius constant angle cupola and other forms of arch dams. The symbol MV includes multiple dome types.

Combinations of type are shown, e.g. TE/PG for an earthfill embankment with central concrete gravity section. The major type is shown first.

## 7. Position and Type of Sealing

**Element** (Column 8 of the Register)

For embankment dams, the position and nature of the sealing element is shown as follows:

Symbol	Position or Sealing Element
f	Face
i	Internal core
h	Homogeneous
c	Concrete
a	Asphalt
e	Earth
p	Plastic
m	Metal

for example a rockfill dam with concrete upstream face is shown 'fe'.

## 8. Foundation

(Column 9 of the Register)

For embankment dams, the nature of the foundation is shown as follows:

Symbol	Foundation
R	Rock
S	Soil

The symbol R/S is used when part of the dam is founded on rock.

## 9. Height above Lowest Foundation

(Column 10 of the Register)

The height shown is the vertical height in metres from the lowest point of the general foundations to the 'crest' of the dam. The 'crest' is taken as the level of the roadway or walkway of the dam. For weirs or dams with a spillway only, the 'crest' is taken as the level at which water overflows.

## 10. Length of Crest

(Column 11 of the Register)

The length shown is the length in metres of the dam at crest level including the spillway crest length where the spillway is within the limits of the dam proper or continuous with the dam crest.

## 11. Volume Content of Dam

(Column 12 of the Register)

Total quantities only are shown, where significant divisions occur then these quantities are indicated in the footnotes as follows:

Symbol	Volume
BC	Concrete
ER	Rockfill
TE	Earth

All volumes are shown to the nearest whole number times  $10^3$  cubic metres.

## 12. Gross Capacity of Reservoir and Reservoir Area

(Column 13 of the Register)

The storage capacity shown is the gross capacity including dead storage. Both capacity and surface area are up to the normal top or retention water level (not flood level).

Capacities are shown to the nearest whole number times  $10^3$  cubic metres. Areas are shown to the nearest whole number times  $10^3$  square metres.

## 13. Purpose (Column 14 of the Register)

The purpose of the dam is shown as follows:

Symbol	Purpose
I	Irrigation
H	Hydroelectric
C	Flood Control
N	Navigation
S	Water Supply
R	Recreation
Q	Water Quality Control

Other purposes are indicated in the footnotes.

## 14. Capacity of Spillways

(Column 15 of the Register)

The capacity shown is the total of all discharges in cubic metres per second through spillways and gates under maximum water level exclusive of power and irrigation outlets or emergency plugs.

## 15. Type of Spillway

(Column 16 of the Register)

The type of spillway is shown as follows:

Symbol	Type
L	Uncontrolled
V	Controlled

## 16. Owner, Engineering, Construction

(Column 17, 18 and 19 of the Register)

The name of the owner, the name of the authority or engineering consultants who designed the dam and the name of the authority or contractors who constructed the major part of the dam proper are given.