



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR A LICENCE TO CONSTRUCT, TO ALTER OR TO ENLARGE A CATEGORY II OR III DAM IN TERMS OF THE NATIONAL WATER ACT, 1998 (ACT 36 OF 1998), READ WITH REGULATION 4, 10 TO 23 OF THE REGULATIONS PUBLISHED IN GOVERNMENT NOTICE R. 139 OF 24 FEBRUARY 2012

GENERAL PARTICULARS AND INSTRUCTION

Any person who intends to build a Category II or III dam, or to change or enlarge an existing dam in such a way that the completed dam would be classified as a Category II or III dam should submit the information required in this form.

Complete the form in block letters or type in the particulars and submit it with the project specifications, engineering plans and design report of the dam to Director-General: Water and Sanitation, for attention: Dam Safety Office, Private Bag X313, Pretoria, 0001.

GENERAL PARTICULARS OF THE DAM

Name of dam _____

Date of classification _____ Category _____

Departmental file number _____

(If the proposed work has not been classified yet a DW692E form must be completed first)

Owner: Surname _____

First names _____ Identity number _____

Postal address of owner _____

Postal code _____

Telephone/Cell number of owner _____

e-mail address of owner: _____

Name of approved professional person _____

e-mail address of approved professional person : _____

Description of the property as on title deed _____

Portion _____

Magisterial district _____

Nearest town/city _____

Distance to nearest town/city (km) _____

Name of water course in which the dam is situated _____

Latitude _____ Longitude _____

Purpose of the scheme (mention water users) _____

The type of wall _____

Quantities of construction material (in cubic metres)

Concrete _____

Rollcrete _____

Rockfill _____

Earthfill _____

Nature and extent of proposed alterations in the case of an existing dam.

HYDROLOGICAL PARTICULARS OF THE PROJECT

Size of the catchment area (km^2) _____

Gross storage capacity at full supply (m^3) _____

Net storage capacity (m^3) _____

Surface area of the water at full supply (ha) _____

Size of the design flood and the expected recurrence interval thereof (m^3/s) _____

Size of the expected regional maximum flood (m^3/s) _____ and the expected possible maximum flood (m^3/s) _____

PARTICULARS OF THE HYDRAULIC STRUCTURES AND COMPONENTS

Type of spillway and dimensions _____

Amount of free board (the vertical difference between the level of the crest and level of the design flood) (m) _____

Relative levels of the river bed immediately downstream of the structure _____ (m), spillway crest _____ (m) and non-spillway crest (m) _____

Tailwater level during design flood (m) _____

Discharge capacity of the spillway with "no" free board (m^3/s) _____

Description of any spillway gates _____

What type of energy dissipator was prescribed and what are the important dimensions? _____

Description of the outlet works _____

Location of control point _____

Location of emergency gate _____

Size and number of conduits _____

Control mechanism _____

Description of any auxiliary spillway _____

Location _____

Control level _____

Nature _____

Crest length (m) _____

Number of days needed to draw down the water-level of the dam from full supply level to different levels with no inflow as follows:

Percentage of full supply level

Number of days

90

80

60

10

PARTICULARS OF THE STABILITY OF THE PROPOSED DAM

Maximum height of wall (m) _____

Wall thickness at the foundation at the maximum cross-section (m) _____

Width of the crest (m) _____

Gradient of the upstream side _____

Gradient of the downstream side _____

Total crest length of the wall (m) _____

A general engineering description of the construction materials for use in different zones of the wall, with reference to the composition, nature, grading and geological origin, thereof.

A BRIEF GEOLOGICAL DESCRIPTION OF THE GENERAL NATURE OF THE MATERIALS FORMING THE FOUNDATION OF THE DAM

PARTICULARS OF THE CONSTRUCTION OF THE WORKS

Planned date of commencement of the construction work _____

Expected duration of the construction work _____

Name of contractor _____

SITE SUPERVISION DURING CONSTRUCTION BY THE APPROVED PROFESSIONAL PERSON AND HIS REPRESENTATIVES

Will there be full-time (daily) supervision? _____

If not, planned frequency of site inspections _____

Estimated number of site inspections by the approved professional person _____

Estimated number of site inspections by his representative _____

COST ESTIMATES

Construction cost _____

Cost of site supervision by consulting engineer _____

DOCUMENTATION

The following reports or drawings are included:

Title of report, plan or project specification	Number	Date
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

SIGNATURE _____ DATE _____

FOR OFFICE USE

