

WATER RESOURCES ACT

(reg.49)

(Cap.72:03)

WATER RESOURCES REGULATIONS, 2018 **FORM E**

DETAILS FOR STORAGE DAMS

**Table 1: Classification of Dams**

|  |  |  |
| --- | --- | --- |
| **Class of Dam** | **Height of the Dam (m)** | **Capacity(m3)** |
| Very Small` | 0 – 4.5 | <500,000 |
| Small | >4.5-<8.0 | < 1,000,000 |
| Medium | >8.0-< 15.00 | <5,000,000 |
| Large | >15 | >5,000,000 |

**Table 2: Design and Supervision of Dam**

|  |  |
| --- | --- |
| **Class of Dam** | **Category of Qualified Professional** |
| Very Small | Water Engineer |
| Small | Registered Civil Engineer |
| Medium | Professional Dam Experts |
| Large | Professional Dam Experts |

**Table 3: Category of Dam Contractor**

|  |  |
| --- | --- |
| **Class of Dam** | **Category of Dam Contractor** |
| Very Small | 15 Million Kwacha |
| Small | 50 Million Kwacha |
| Medium | Unlimited |
| Large | Unlimited |

**Table 4: Dam Safety Inspection Schedule**

|  |  |  |
| --- | --- | --- |
| **Class of Dam** | **Frequency of inspection** | **Inspection by** |
| Very Small | Once in 5 years | Water Engineer |
| Small | Once in 3 years | Registered Civil Engineer |
| Medium | Once every 2 years | Professional Engineer |
| Large | Once every year | Professional Engineer |

**Table 5: Minimum Spillway Design Flood for Dams**

|  |  |
| --- | --- |
| **Class of Dam** | **Minimum Return Period for Design of Spillway** |
| Very Small | 1 in 20 years |
| Small | 1 in 500 years |
| Medium | 1 in 1000 years |
| Large | 1 in 10,000 years |