

System Specification Checklist

for CNI Data Centres



TRICEL
GENERATIONS OF INNOVATION

Project Information

Project Name:

Location:

Tier Classification:

Commissioning Date:

1. Capacity Specification

Daily water consumption (m³/day)

Target autonomy period (hours/days)

Calculated cooling water volume

Fire suppression volume required

Total storage requirement with contingency

2. Tank Type Selection

Above-ground tanks

Below-ground cisterns

Modular sectional tanks

Single large tank or multiple smaller tanks

3. Tank Material

GRP sectional panels selected

Material has potable water certification

Food-grade epoxy coating specified

Expected service life documented (25 years)

Maintenance requirements defined

4. Hydraulic Connections

Inlet pipe size specified (mm)

Backflow prevention device type specified

Automated fill valve specified

Outlet connections sized for peak flow

Isolation valves on all inlets/outlets

Overflow pipe sized adequately

5. Monitoring Equipment

- Level sensor type specified
- Flow meters specified for inlet/outlet
- Temperature sensors specified
- pH and conductivity sensors (if required)
- BMS integration protocol defined
- Alarm setpoints defined

6. Water Treatment

- Filtration system specified
- Biocide dosing system specified
- pH adjustment system (if required)
- Chemical storage tanks sized
- Sampling points designated

7. Certifications Required

- WRAS approval confirmed
- NSF/ANSI 61 certification required
- LPCB approval for fire tanks (if applicable)
- BS 8558:2015 compliance verified
- BS EN 12845 compliance (fire systems)

Notes / Actions Required: