1.0 Scope
Supply an electrically heated hot water boiler/calorifier complete with standard equipment and options as indicated in the following specification.

2.0 General
2.1 The boiler/calorifier shall be electric resistance type VWB/VC/etc. as manufactured by CCI Thermal Technologies Inc.
2.2 The boiler/calorifier shall be constructed to the latest edition of the ASME code with the design registered in ______________________.

3.0 Capacity
3.1 The minimum boiler/calorifier output shall be _____ Btu’s/hr.
3.2 The boiler/calorifier shall be rated at _____ volts, _____ phase, _____ kW, _____ HZ.
3.3 The boiler/calorifier shall be suitable for operating under the following conditions:
   - flow rate: _____ USGPM (l/s)
   - inlet temperature: _____ °F (°C)
   - outlet temperature: _____ °F (°C)
3.4 The boiler/calorifier vessel shall be designed for an operating pressure of _____ psig (kPa) maximum.

4.0 Controls
4.1 The boiler/calorifier shall be fully equipped with all electrical and mechanical controls so that it is complete and ready to operate.
4.2 Standard mechanical components provided shall include a pressure gauge with isolating stopcock, a temperature gauge, drain blowdown valve(s) as required, temperature controller, high temperature controller c/w manual reset and pressure relief valve(s).
4.3 Standard electrical components provided shall include a control circuit ON/OFF switch, fused control transformer, fused magnetic contactors derated to a maximum of 90% of their rated capacity, electronic low water controller, pilot lights for “Power ON”, “Heat ON”, “Low Water”, and “High Temperature”, and connection lugs for incoming power supply.
4.4 In addition to the standard components itemized in articles 4.2 and 4.3, the boiler/calorifier shall come equipped with the following optional features: (specify - see pages E26 and E28 for options)

5.0 Flange Heaters
5.1 The boiler/calorifier shall be equipped with flanged immersion heaters as manufactured by CCI Thermal Technologies Inc.
5.2 The flange heaters shall be Incoloy® sheathed and of low watt density.
5.3 (For VWB Boilers) The flange heaters shall be mounted vertically through the top of the vessel so as to minimize the build-up of solids on the heating elements.
   or
5.3 (For Calorifiers) The flange heater shall be mounted horizontally as close as practical to the bottom of the vessel.

6.0 Enclosure
6.1 The hot water boiler/calorifier shall be equipped with a full structural steel base supporting the vessel, control panel and sheet metal enclosure.
6.2 The entire enclosure shall be finished with a baked on epoxy finish (ASA-61 gray).
6.3 The boiler/calorifier dimensions shall be approximately _____ high x _____ wide x _____ deep.
6.4 (For Calorifiers) The vessel storage volume shall be _____ U.S. gallons (litres).