

A20 THE CONTRACT/ SUB CONTRACT

requirements of the specification. Ensuring that the design of the fire alarm system(s) and voice alarm system(s) comply with the edition of BS 5839 current at the time of Tender.

11. Designing and selecting attenuators to satisfy the particular and performance requirements of the specification, including spatial allowances shown on the Tender drawings.
12. Designing flue systems for the diesel generator(s), boiler(s) and other equipment to meet the requirements of the equipment manufacturer, the Building Control Authority and the Environmental Health Officer, and ensuring that the flue gas is discharged at the required velocity and altitude. Providing the Contract Administrator with a copy of the application for approval of the flue system under the Clean Air Act.
13. Designing elements of our scheme to account for self-weight and other applied forces / loadings in reasonable use. (e.g. the design of anchorage, encasement and foundations for buried tanks or buried piping.)
14. Designing systems to safely and reliably accommodate thermal expansion and contraction (including the provision of anchors, bellows, compensators, loops and bends.) Designing systems to safely and reliably accommodate and control their movement due to hydraulic pressures and building movement.
15. Designing acoustic treatment (including attenuators, silencers, absorption materials, baffles, mutes, cladding and jacketing) or modification of equipment, to comply with the noise levels specified, including when all building engineering services systems and plant are operating.
16. Selecting valve, damper and access locations.
17. Calculating system water capacities, the quantities of chemical additives required, and providing all the facilities required (whether temporary or permanent), for pre-commissioning flushing and cleaning of water systems, all in accordance with the current edition of BSRIA Application Guide BG 29/2012 'Pre-commission cleaning of pipework systems'.
18. Selecting all anti-vibration mountings to suit the particular application of the mounts.
19. Designing pump inertia bases to meet the specified vibration isolation requirements.
20. Selecting exact locations of instruments, control sensors, detectors and thermostats.
21. Final sizing of sections of ductwork between terminal units and diffusers to achieve the specified noise criteria and duct velocities.
22. Final detailing and confirmation of the location and sizes of duct connections to external louvres.
23. Calculating pump and fan duties to suit the piping and ducting layouts shown on your final Installation Drawings to ensure that the specified capacities are not invalidated by your selection of alternative pipe or duct routes, or items of plant and equipment selected for incorporation into the works
24. Selecting the capacity, location and design of electrical conduit, trunking, tray and cable ladder systems
25. Selecting proprietary platforms, access covers, gratings, ladders, walkways, balustrades, guardrails and all additional structural steelwork, associated with specific items of plant, where indicated in the Tender documentation.
26. Carrying out detailed design of fire rated ductwork systems and ductwork fire protection systems, including obtaining all necessary statutory approvals.
27. Selecting, positioning and carrying out final sizing of regulating devices (including regulating valves, balancing valves, flow measuring orifice plates, commissioning sets, balancing dampers, etc.), to achieve the specified function and to suit the characteristics of items served and the final configuration of installed systems, in accordance with the recommendations of the manufacturers of the regulating devices.

Date: June 2016

Project Number: 0709859

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