Bridgewater High School, an academy within The Challenge Academy Trust, is seeking to replace the existing network switching solution and expand its current provision. The academy is located over two sites. The solution includes a 20Gb/s interlink between both sites and a 20gb link to each cabinet to their local core. The solution is part of a crucial IT infrastructure to allow the academy to operate and deliver high quality education. It is therefore important that any equipment is tier 1 and comes with a minimum of a 3-year extended service package with a 24/7 cover within a 4 hour response time. The technical specification is based upon specific switches but there is scope to quote for a different switch solution based upon a similar technical specification being quoted upon. This must be highlighted at the beginning of the tender.

There are 7 cabinets on Site 1 and 8 cabinets on Site 2. Site 2 is currently having an extension built which is due to be commissioned on 1st September 2022. All works, supply, installation, optimising and testing must be completed before this date. It is envisaged that the installation will begin in July when the academy closes to students. Sufficient time is being given to ensure all equipment can be purchased and delivered on time. The equipment required is:

|  |  |
| --- | --- |
| **Site 1** | **QUANTITY** |
| **Core Cabinet** |  |
| HPE 5412R zl2 Manageable Switch Chassis - 3 Layer Supported - Modular - 7U High - Rack-mountable | 1 |
| Aruba 5400R ZL2 2nd Management Module | 1 |
| HPE Expansion Module - 24 x RJ-45 1000Base-T LAN - For Data Networking - Twisted PairGigabit Ethernet - 1000Base-T - 1 Gbit/s | 2 |
| HP 8p 1G/10GbE SFP+ v3 zl2 Mod | 2 |
| HPE Power Module - 120 V AC, 230 V AC  HP 5400R 700W PoE+ zl2 Power Supply | 2 |
| HPE ProCurve SFP+ - 1 x LC 10GBase-SR Full-duplex  HP X132 10G SFP+ LC SR Transce | 14 |
| HPE ProCurve SFP+ - 1 x LC 10GBase-LR Full-duplex | 2 |
| HPE Care Pack Foundation Care Exchange - 3 Year Extended Service - Service - 24 x 7 x 4 Hour - Service Depot - Exchange - Physical | 1 |
|  |  |
| **Site 1 – Other Cabinets** |  |
| Aruba 48 Ports Ethernet Switch - 3 Layer Supported - Modular - 370 W PoE Budget - Twisted Pair, Optical Fiber - PoE Ports - 1U High - Rack-mountable,  Wall Mountable | 6 |
| Aruba 48 Ports Ethernet Switch - 3 Layer Supported - Modular – Twisted Pair, Optical Fiber - 1U High - Rack-mountable, Wall Mountable | 4 |
| HPE ProCurve SFP+ - 1 x LC 10GBase-SR Full-duplex  HP X132 10G SFP+ LC SR Transce | 12 |
|  |  |
| **Site 2 – Core Cabinet** |  |
| HPE 5412R zl2 Manageable Switch Chassis - 3 Layer Supported -  Modular - 7U High - Rack-mountable | 1 |
| HPE zl2 Management Module - 1 x Management, 1 x Management, 1 x Management, 1 x USB - For Network Management  Aruba 5400R ZL2 2nd Management Module | 1 |
| HPE Expansion Module - 24 x RJ-45 1000Base-T LAN - For Data Networking - Twisted PairGigabit Ethernet - 1000Base-T - 1 Gbit/s | 1 |
| HPE Expansion Module - For Data Networking, Optical Network – Optical FiberGigabit Ethernet - 10GBase-X, 10 Gigabit Ethernet - 10 Gbit/s - 8 x Expansion Slots - SFP+  HP 8p 1G/10GbE SFP+ v3 zl2 Mod | 3 |
| HPE Power Module - 120 V AC, 230 V AC  HP 5400R 700W PoE+ zl2 Power Supply | 2 |
| HPE ProCurve SFP+ - 1 x LC 10GBase-SR Full-duplex  HP X132 10G SFP+ LC SR Transce | 14 |
| HPE ProCurve SFP+ - 1 x LC 10GBase-LR Full-duplex | 2 |
| HPE Care Pack Foundation Care Exchange - 3 Year Extended Service - Service - 24 x 7 x 4 Hour - Service Depot - Exchange - Physical | 1 |
|  |  |
| **Site 2 – Other Cabinets** |  |
| Aruba 48 Ports Ethernet Switch - 3 Layer Supported - Modular - 370 W PoE Budget - Twisted Pair, Optical Fiber - PoE Ports - 1U High - Rack-mountable, Wall Mountable | 7 |
| Aruba 48 Ports Ethernet Switch - 3 Layer Supported - Modular – Twisted Pair, Optical Fiber - 1U High - Rack-mountable, Wall Mountable | 5 |
| HPE ProCurve SFP+ - 1 x LC 10GBase-SR Full-duplex  HP X132 10G SFP+ LC SR Transce | 14 |
|  |  |
| **Optional Extras** |  |
| Aruba 48 Ports Ethernet Switch - 3 Layer Supported - Modular – Twisted Pair, Optical Fiber - 1U High - Rack-mountable, Wall Mountable | 2 |
|  |  |
| **Switches Required for CCTV Upgrade/Refresh** |  |
| HP Aruba 2930F 24G PoE+ SFP+ Switch | 10 |
| HP Aruba AP bracket – 10 Pack | 10 |
| HP Aruba 10GbE 1 DAC Cable | 10 |
|  |  |

The above equipment is an example of the requirements. Other Tier 1 made equipment can be used to place a tender. All equipment must be ready for installation by Monday 4th July 2022. Installation, configuration, testing and handover must be complete by week commencing 15th August 2022. It may be possible to install earlier if the academy operations are not impacted by it.

The tender closing date is Thursday 21st April at 9am. All tenders and queries should be submitted to tenders@bridgewaterhigh.com.