

# Bill of Quantities

Project: SJH - Phase 1 Electrical Works  
Building: SJH campus

Details: Mechanical Works

| Autoc<br>ode | Description                                                                                                                                                                                                                                                                            | Quantity | Unit | Rate | Total |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|-------|
| 1            | PREAMBLES                                                                                                                                                                                                                                                                              |          |      |      |       |
| 1.A          | 1. The following works are to be priced in accordance with the detailed design, specifications and scheme drawings as prepared by BDP. (Building Design Partnership)                                                                                                                   |          | Note |      |       |
|              | 2. The tenderer is deemed to have visited the site to fully acquaint themselves with the scope of the works and conditions pertaining thereto                                                                                                                                          |          | Note |      |       |
|              | 3. The tenderer shall Note that this Bill of Quantities (BOQ) is measured in accordance with the ARM4 Supplement 2 – Agreed Alternative Rules for the Measurement of Services Installations.                                                                                           |          | Note |      |       |
|              | 4. The tenderer is referred to the locational drawings, Architect's, Engineers, Mechanical & Electrical drawings, details, specifications, reports and all tender documentation accompanying this Bill of Quantities.                                                                  |          | Note |      |       |
|              | 5. All rainwater installation shall be completed by others.                                                                                                                                                                                                                            |          | Note |      |       |
|              | 6. For preliminaries particulars, please refer to tender documentation.                                                                                                                                                                                                                |          | Note |      |       |
|              | 7. The Tenderer is to provide a fully quantified schedule of rates to support their BOQ submission with all rates and prices extended. This will be requested within 15 working days following the issuance by the employer of Letter of acceptance (MF 1.4) to the successful tender. |          | Note |      |       |
|              | 8. The work is measured as net fixed in position; as per the drawings; the tender shall allow for coordination which shall be deemed to be included within the rate.                                                                                                                   |          | Note |      |       |
|              | 9. The Mechanical BOQ shall be priced in strict accordance to the Mechanical Specification, Drawings and Schedules listed:                                                                                                                                                             |          | Note |      |       |
|              | – Specifications:<br>SPEC-001 – SJH Electrical Specification – Phase 1                                                                                                                                                                                                                 |          |      |      |       |
|              | – Drawings:<br>(6-)E002 LV Schematic                                                                                                                                                                                                                                                   |          |      |      |       |

PREAMBLES

To Collection:

|                                         |                           |
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| Project: SJH - Phase 1 Electrical Works | Details: Mechanical Works |
| Building: SJH campus                    |                           |

| Autoc<br>ode | Description | Quantity | Unit | Rate | Total       |
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| 1            | PREAMBLES   |          |      |      | (Continued) |

COLLECTION

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PREAMBLES  
Carried to Summary:

## Bill of Quantities

Project: SJH - Phase 1 Electrical Works  
Building: SJH campus

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| Autoc<br>ode | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quantity | Unit | Rate | Total |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|-------|
| 2            | FUEL SERVICES INSTALLATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |      |       |
|              | <p><u>Notes on Pricing</u></p> <p>1 – Distribution system is deemed to include all pipework, header pipes, supports, fittings (including valves, elbows, tees, couplers, unions, adapters, nipples, reducers, caps, automatic air vents, drain cocks), equipment (including pumps, plate heat transfer units / exchangers, dosing pots, pressurisation units, test points, meters, dosing pots, pressurisation and de-gasser units, expansion vessels, sensors, gauges and the like), cleaning &amp; flushing and all associated ancillary items that are required for installation that are not specifically enumerated in the below bill of quantities.</p> <p>2 – Insulation is deemed to include for all insulation to pipework, fittings, valves, equipment and all items that require insulation all in accordance to the drawings and specification</p> <p>3 – Cladding is deemed to include for all protection to pipework, fittings, valves, equipment and all items that require insulation all in accordance to the drawings and specification.</p> <p>4 – All the below items shall be priced in accordance to requirements set out in the specifications and equipment data sheets.</p> <p>5 – All shutdowns and isolation of existing services required for new installations or any demolition works is deemed to be included within the BOQ rates.</p> <p>6 – Refer to relevant schematic and layout drawings for distribution system (pipework &amp; fittings) quantities.</p> <p>7 – Refer to all typical detail sheets for connection details as required.</p> <p>8 – All secondary steel, walkways, ladders, gantries etc. required to support and access equipment or distribution systems are deemed to be included within the BOQ rates.</p> <p>9 – Where items of equipment are noted, the item is deemed to include supply, installation, commissioning and set up work of the item and any flexible connections and the like required to complete the installation of the equipment.</p> <p>10 – The contractor shall supply, install and commission the complete system, complete and in accordance with the information as set out within the following design information:</p> |          | Note |      |       |
| 2.A          | <p>– Specifications:</p> <p>SPEC-001 – SJH Electrical Specification – Phase 1</p> <p>– Drawings:</p> <p>(6-)E002 LV Schematic</p> <p><u>EQUIPMENT</u></p> <p>Day Fuel Storage Tank</p> <p><u>Supply and installation of the 10,000 litre oil storage tank (approx. based on the manufacturer) and shall be double skin construction to BS799 Part 5, complete with all the necessary supports, fixings and accessories; all in accordance with the drawings, schedules and specifications.</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | Note |      |       |
| 2.B          | <p>10,000 Litre Day Fuel Tank</p> <p><u>DISTRIBUTION SYSTEMS</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1        | no   |      |       |

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Project: SJH - Phase 1 Electrical Works  
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| Autoc<br>ode | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quantity    | Unit | Rate | Total |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|------|-------|
| 2            | FUEL SERVICES INSTALLATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (Continued) |      |      |       |
|              | <u>A new separate twin-walled fuel tank with leak detection is being provided in the adjacent Break Tank Plant Room as part of the separate 3rd Generator installation project. Include for providing new oil pipework etc. from this tank to the new generators as required; Design, supply and installation of all associated oil line pipework and pumps associated with the new oil tank and generators installation, complete with all the necessary supports, fixings and accessories; all in accordance with the drawings, schedules and specifications.</u> |             |      |      |       |
| 2.C          | Fuel pipework<br><br><u>INSULATIONS</u><br><br><u>Supply and installation of insulation to fuel storage system pipework; all in accordance with the drawings, schedules and specifications.</u>                                                                                                                                                                                                                                                                                                                                                                     | 1.00        | Item |      |       |
| 2.D          | Fuel pipework insulation<br><br><u>TIE-INS AND MODIFICATION WORKS TO EXISTING SERVICES</u><br><br><u>Supply and installation of the tie-ins and modification works required to the existing fuel services system, including but not limited to, connections to bulk fuel tanks, fuel cabinet, etc. etc. ; all in accordance with the drawings, schedules and specifications.</u>                                                                                                                                                                                    | 1.00        | Item |      |       |
| 2.E          | Tie-ins and modification works to the existing fuel service system<br><br><u>STRIP-OUT WORKS/ DISPOSAL</u><br><br><u>Removal and disposal of all redundant mechanical services, all associated pipework, etc.; all in accordance with the drawings, schedules and specifications.</u>                                                                                                                                                                                                                                                                               | 1           | Item |      |       |
| 2.F          | Strip out works, including disposal<br><br><u>GENERAL</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1           | Item |      |       |
| 2.G          | Testing & commissioning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1           | item |      |       |
| 2.H          | Operating and maintenance manuals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1           | item |      |       |
| 2.I          | Working drawings / model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1           | item |      |       |
| 2.J          | Co-ordination drawings / model (incl builder's work)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1           | item |      |       |
| 2.K          | As built drawings / model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1           | item |      |       |
| 2.L          | Identification plates, labels and the like                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1           | item |      |       |
| 2.M          | Keys, tools and spares parts (as required)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1           | item |      |       |
| 2.N          | Marking the position of holes, mortices and chases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1           | Item |      |       |
| 2.O          | Plastic Pipe Fire collars (as applicable)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1           | item |      |       |

FUEL SERVICES INSTALLATION

To Collection:

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| Project: SJH - Phase 1 Electrical Works | Details: Mechanical Works |
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| Autoc<br>ode | Description                | Quantity | Unit | Rate | Total       |
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| 2            | FUEL SERVICES INSTALLATION |          |      |      | (Continued) |

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FUEL SERVICES INSTALLATION  
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Project: SJH - Phase 1 Electrical Works  
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| Autocode | Description                                                                                                                                                                                                                             | Quantity | Unit | Rate | Total       |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|-------------|
| 3        | VENTILATION SERVICES INSTALLATION                                                                                                                                                                                                       |          |      |      | (Continued) |
|          | <u>EXHAUST – FLUE SYSTEM</u>                                                                                                                                                                                                            |          |      |      |             |
|          | <u>Supply and installation of an appropriate stainless steel flue system to above roof level, complete with all the necessary supports, fixings and accessories; all in accordance with the drawings, schedules and specifications.</u> |          |      |      |             |
| 3.C      | Flue System, to new generator                                                                                                                                                                                                           | 1        | item |      |             |
|          | <u>TIE-INS AND MODIFICATION WORKS TO EXISTING SERVICES</u>                                                                                                                                                                              |          |      |      |             |
|          | <u>Supply and installation of the tie-ins and modification works required to the existing ventilation system; all in accordance with the drawings, schedules and specifications.</u>                                                    |          |      |      |             |
| 3.D      | Tie-ins and modification works to existing ventilation system                                                                                                                                                                           | 1        | item |      |             |
|          | <u>GENERAL</u>                                                                                                                                                                                                                          |          |      |      |             |
| 3.E      | Testing & commissioning                                                                                                                                                                                                                 | 1        | item |      |             |
| 3.F      | Operating and maintenance manuals                                                                                                                                                                                                       | 1        | item |      |             |
| 3.G      | Working drawings / model                                                                                                                                                                                                                | 1        | item |      |             |
| 3.H      | Co-ordination drawings / model (incl builder's work)                                                                                                                                                                                    | 1        | item |      |             |
| 3.I      | As built drawings / model                                                                                                                                                                                                               | 1        | item |      |             |
| 3.J      | Identification plates, labels and the like                                                                                                                                                                                              | 1        | item |      |             |
| 3.K      | Keys, tools and spares parts (as required)                                                                                                                                                                                              | 1        | Item |      |             |
| 3.L      | Marking the position of holes, mortices and chases                                                                                                                                                                                      | 1        | Item |      |             |
| 3.M      | Plastic Pipe Fire collars (as applicable)                                                                                                                                                                                               | 1        | item |      |             |

VENTILATION SERVICES INSTALLATION

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| Autoc<br>ode | Description                       | Quantity | Unit | Rate | Total       |
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| 3            | VENTILATION SERVICES INSTALLATION |          |      |      | (Continued) |

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VENTILATION SERVICES INSTALLATION  
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| Autoc<br>ode | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Quantity | Unit | Rate | Total |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|-------|
| 4            | CONTROL SYSTEM (BMS) INSTALLATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |      |       |
|              | <p><u>Notes on Pricing</u></p> <p>1 – The Mechanical contractor's appointed BMS specialist shall be responsible for designing the following:</p> <ul style="list-style-type: none"> <li>• BMS architecture and system delivery</li> <li>• Integration of all prescribed points, functions and devices to the BMS client front end</li> <li>• Successful demonstration and FM training of the integrated system to client and engineers in advance of client acceptance.</li> </ul> <p>The rates below are deemed to include for all design work noted here-within as being required.</p> <p>2 – All the below items shall be priced in accordance to requirements set out in the specifications and equipment data sheets.</p> <p>3 – The contractor shall supply, install and commission the complete system, complete and in accordance with the information as set out within the following design information:</p> |          | Note |      |       |
| 4.A          | <p>– Specifications:</p> <p>SPEC-001 – SJH Electrical Specification – Phase 1</p> <p>– Drawings:</p> <p>(6-)E002 LV Schematic</p> <p>BUILDING MANAGEMENT SYSTEM</p> <p><u>Design, supply and installation of the works necessary to the Building Management System (BMS) in the integration of the requirements of the electrical infrastructure upgrade, as described in SPEC-001 – SJH Electrical Infrastructure Specification – Phase 1, complete with all the necessary supports, fixings and accessories; all in accordance with the schedules, drawings and specifications.</u></p> <p><u>TERMINAL EQUIPMENT</u></p> <p><u>Supply &amp; Installation of new BMS Points and controllers as per the performance requirements, complete with all the necessary supports, fixings and accessories; all in accordance with the drawings, schedules and specifications.</u></p>                                        |          | Note |      |       |
| 4.B          | <p>BMS Points</p> <p><u>TIE-INS AND MODIFICATION WORKS TO EXISTING BMS</u></p> <p><u>Supply and installation of the tie-ins and modification works required to the existing BMS installations; all in accordance with the drawings, schedules and specifications.</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | Item |      |       |
| 4.C          | <p>Tie-ins and modification works to existing BMS system</p> <p><u>GENERAL</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1        | item |      |       |
| 4.D          | Testing & commissioning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | item |      |       |
| 4.E          | Operating and maintenance manuals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1        | item |      |       |
| 4.F          | Working drawings / model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1        | item |      |       |
| 4.G          | Co-ordination drawings / model (incl builder's work)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1        | item |      |       |
| 4.H          | As built drawings / model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | item |      |       |
| 4.I          | Identification plates, labels and the like                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | item |      |       |
| 4.J          | Keys, tools and spares parts (as required)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | Item |      |       |

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| Autoc<br>ode | Description                                        | Quantity | Unit | Rate | Total       |
|--------------|----------------------------------------------------|----------|------|------|-------------|
| 4            | CONTROL SYSTEM (BMS) INSTALLATION                  |          |      |      | (Continued) |
| 4.K          | Marking the position of holes, mortices and chases | 1        | Item |      |             |

CONTROL SYSTEM (BMS) INSTALLATION

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| 4            | CONTROL SYSTEM (BMS) INSTALLATION |          |      |      | (Continued) |

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CONTROL SYSTEM (BMS) INSTALLATION  
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| Autoc<br>ode | Description                                                                                                                                                                                                                                                                                          | Quantity | Unit | Rate | Total |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|-------|
| 5            | BUILDERS WORK                                                                                                                                                                                                                                                                                        |          |      |      |       |
| 5.A          | INSPECTION, TESTING, COMMISSIONING & HANDOVER<br><br>The Contractor is referred to the Electrical Drawings packages, Electrical Particular Specification and MEP Builders Works Schedule for details.<br><br>General items to be allowed for in accordance with Electrical Particular Specification. | 1        | item |      |       |

BUILDERS WORK

# Bill of Quantities

|                                         |                           |
|-----------------------------------------|---------------------------|
| Project: SJH - Phase 1 Electrical Works | Details: Mechanical Works |
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| Autoc<br>ode | Description   | Quantity | Unit | Rate | Total       |
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| 5            | BUILDERS WORK |          |      |      | (Continued) |

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BUILDERS WORK  
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| Autocode | Description                                                                                                                                  | Quantity | Unit | Rate | Total |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|-------|
| 6        | GENERALLY                                                                                                                                    |          |      |      |       |
|          | INSPECTION, TESTING, COMMISSIONING & HANDOVER                                                                                                |          |      |      |       |
|          | <u>The Contractor is referred to the Mechanical Drawings packages, Mechanical Specification and MEP Builders Works Schedule for details.</u> |          |      |      |       |
|          | <u>General items to be allowed for in accordance with Mechanical Specification</u>                                                           |          |      |      |       |
| 6.A      | Allowance made for ID Plates, labels etc.                                                                                                    | 1        | item |      |       |
| 6.B      | Liaison with and Co-Ordination of the Installation                                                                                           | 1        | item |      |       |
| 6.C      | Site Supervision, Site Facilities and Waste Disposal                                                                                         | 1        | item |      |       |
| 6.D      | Inspection of Installation, Complete                                                                                                         | 1        | item |      |       |
| 6.E      | Final Clean of Installation, Complete                                                                                                        | 1        | item |      |       |
| 6.F      | Testing Installation, Complete                                                                                                               | 1        | item |      |       |
| 6.G      | Commissioning Installation, Complete                                                                                                         | 1        | item |      |       |
| 6.H      | Operating & Maintenance (O&M) Manuals                                                                                                        | 1        | item |      |       |
| 6.I      | As-Built Drawings                                                                                                                            | 1        | item |      |       |
| 6.J      | Client Demonstration and Handover                                                                                                            | 1        | item |      |       |

GENERALLY

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| 6            | GENERALLY   |          |      |      | (Continued) |

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COLLECTION SUMMARY

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| CONTROL SYSTEM (BMS) INSTALLATION | 9 - 10 |
| BUILDERS WORK                     | 12     |
| GENERALLY                         | 14     |
| Total Amount:                     |        |