

NRM2 Bill of Quantities Example
Work Section breakdown structure
5 : Excavating and Filling / 11 : In-situ Concrete Works

Refer to NRM 2 Appendix A : Guidance on the Preparation of Bill of Quantities

This example follows the Work Section breakdown structure :

Measurement and description is divided into the work sections listed in NRM2: Detailed measurement for building works - i.e., the tabulated rules:

- Bill No 1 : Main Contractor's Preliminaries
- Bill No 2 : Off-site manufactured materials, components and buildings
- Bill No 3 : Demolition works
- Bill No 4 : Alterations, repairs and conservation
- Bill No 5 : Excavating and filling
- Bill No 6 : Ground remediation and soil stabilisation
- Bill No 7 : Piling
- Bill No 8 : Underpinning
- Bill No 9 : Diaphragm walls and embedded retaining walls
- Bill No 10 : Crib walls, gabions and reinforced earth
- Bill No 11 : In-situ concrete works
- Bill No 12 : Precast/composite concrete
- Bill No 13 : Precast concrete
- Bill No 14 : Masonry
- Bill No 15 : Structural metalwork
- Bill No 16 : Carpentry
- Bill No 17 : Sheet roof coverings
- Bill No 18 : Tile and slate roof and wall coverings
- Bill No 19 : Waterproofing
- Bill No 20 : Proprietary linings and partitions
- Bill No 21 : Claddings and coverings
- Bill No 22 : General joinery
- Bill No 23 : Windows, screens and lights
- Bill No 24 : Doors, shutters and hatches
- Bill No 25 : Stairs, walkways and balustrades
- Bill No 26 : Metalwork
- Bill No 27 : Glazing
- Bill No 28 : Floor, wall, ceiling and roof finishes
- Bill No 29 : Decoration
- Bill No 30 : Suspended ceilings
- Bill No 31 : Insulation, fire stopping and fire protection
- Bill No 32 : Furniture, fittings and equipment
- Bill No 33 : Above ground drainage
- Bill No 34 : Drainage below ground
- Bill No 35 : Site works
- Bill No 36 : Fencing
- Bill No 37 : Soft landscaping
- Bill No 38 : Mechanical services
- Bill No 39 : Electrical services
- Bill No 40 : Transport
- Bill No 41 : Builders work in connection with mechanical, electrical and transportation
- Bill No 42 : Risks
- Bill No 43 : Provisional Sums
- Bill No 44 : Credits
- Bill No 45 : Daywork (Provisional)

This breakdown structure is often preferred by Contractors for the purpose of pricing as all like products and components are grouped together (e.g. the reinforced concrete columns, beams, floors, roofs and staircases), whereas they can be spread among a number of different elements when an elemental breakdown structure is used.

**Work Section 5 :
 Excavating and Filling**

| | Item | Quantity | Unit | Rate | Cost (£) |
|---|---|----------|------|---------------|----------|
| | <p><u>INFORMATION</u></p> <p><u>Nature and location of the work</u></p> <p>The work in this bill comprises</p> | | | | |
| a | <p>excavation from commencement level, forming foundations and ground floor slab as shown on the drawings and as described in the specifications provided</p> | | item | | |
| | <p>Generally</p> | | | | |
| b | <p>the contractor shall take account of all restrictions which will apply when undertaking the works. The rates and prices inserted shall fully reflect the nature and character of the work and the restrictions imposed</p> | | item | | |
| | <p><u>Sub-Contractor Preliminaries</u></p> <p>Allow for</p> | | | | |
| c | <p>Sub-Contractor's preliminaries for excavating and filling and associated works</p> | | item | | |
| d | <p>Sub-Contractor's temporary works for the excavating and filling and associated works</p> | | item | | |
| | <p>Insert below and other preliminary items that you deem to be required along with their associated costs (provide details on additional sheets if required)</p> | | | | |
| | <p><u>PREAMBLES</u></p> | | | | |
| e | <p>Include as appropriate - see RICS NRM2 Appendix A.3 (3) (e)</p> | | item | | |
| | | | | | |
| | | | | to collection | £ |

| | Item | Quantity | Unit | Rate | Cost (£) |
|---|--|----------|------|---------------|----------|
| | <u>SUBSTRUCTURE</u> | | | | |
| | <u>EXCAVATING AND FILLING</u> | | | | |
| | <u>Site clearance</u> | | | | |
| | Clear site of all vegetation and other growth and dispose off site | | | | |
| a | description sufficient to identify scope and location of work | x | m2 | | |
| | <u>Site preparation</u> | | | | |
| | Remove topsoil | | | | |
| b | 150 thick | x | m2 | | |
| | <u>Excavation</u> | | | | |
| | Bulk excavation; commencing from formation level of xx.xxx | | | | |
| c | not exceeding 2.00m deep | 92 | m3 | | |
| d | exceeding 2.00m and not exceeding 4.00m deep | x | m3 | | |
| e | exceeding 4.00m and not exceeding 6.00m deep | x | m3 | | |
| | Foundation excavation; commencing at reduced level | | | | |
| f | not exceeding 2.00m deep | x | m3 | | |
| g | exceeding 2.00m and not exceeding 4.00m deep | 50 | m3 | | |
| h | exceeding 4.00m and not exceeding 6.00m deep | x | m3 | | |
| | Extra over excavation irrespective of depth for excavating in | | | | |
| i | hazardous material; details stated (Provisional) | 1 | m3 | | |
| j | non-hazardous material; details stated (Provisional) | 1 | m3 | | |
| k | below ground water level (Provisional) | 1 | m3 | | |
| l | in running water (Provisional) | 1 | m3 | | |
| m | unstable ground (Provisional) | 1 | m3 | | |
| | Extra over excavation irrespective of depth for breaking up | | | | |
| n | rock (Provisional) | 1 | m3 | | |
| o | reinforced concrete (Provisional) | 1 | m3 | | |
| p | concrete (Provisional) | 1 | m3 | | |
| q | brickwork (Provisional) | 1 | m3 | | |
| | | | | | |
| | | | | to collection | £ |

Project Reference ?
 QS Reference?

Work Section 5
 Excavating and Filling

| | Item | Quantity | Unit | Rate | Cost (£) |
|---|--|----------|------|---------------|----------|
| a | Extra over excavation irrespective of depth for excavating alongside existing underground services type, size and depth of service stated | x | m | | |
| b | Extra over excavation irrespective of depth for excavating across existing underground services type, size and depth of service stated | x | nr | | |
| <u>Disposal</u> | | | | | |
| Ground water | | | | | |
| c | depth below original ground level stated | | item | | |
| d | polluted water described if known | | item | | |
| Excavated materials | | | | | |
| e | off site | 99 | m3 | | |
| <u>Retaining excavated material on site</u> | | | | | |
| All other excavated material | | | | | |
| f | to temporary spoil heaps; average distance no more than 20.00m away | 42 | m3 | | |
| <u>Filling obtained from excavated material</u> | | | | | |
| Final thickness of filling not exceeding 500 deep | | | | | |
| g | 350 thick; obtained from on temporary on site spoil heaps no more than 20.00m away | 28 | m2 | | |
| Final thickness of filling exceeding 500 deep | | | | | |
| h | maximum 150 thick layer; obtained from on temporary on site spoil heaps no more than 20.00m away | 32 | m3 | | |
| <u>Imported filling; MOT Type 1 Hardcore</u> | | | | | |
| Beds over 50 thick but not exceeding 500 thick | | | | | |
| i | level to falls, cross falls or cambers | 64 | m3 | | |
| | | | | to collection | £ |

Project Reference ?
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Work Section 5
Excavating and Filling

| | Item | Quantity | Unit | Rate | Cost (£) |
|--|--|----------|------|------|----------|
| | <p style="text-align: center;">Work Section 5 : Excavating and Filling Collection</p> <p>Page Bill Example : Work Section 5 / 1</p> <p>Page Bill Example : Work Section 5 / 2</p> <p>Page Bill Example : Work Section 5 / 3</p> <p>Page Bill Example : Work Section 5 / 4</p> | | | £ | |
| | Work Section 5 : Excavating and Filling Carried to Summary | | | £ | |

**Work Section 11 :
 In-situ Concrete Works**

| | Item | Quantity | Unit | Rate | Cost (£) |
|---|---|----------|------|---------------|----------|
| | <p><u>INFORMATION</u></p> <p><u>Nature and location of the work</u></p> <p>The work in this bill comprises</p> | | | | |
| a | <p>insitu concrete works forming foundations, columns and floor slabs as shown on the drawings and as described in the specifications provided</p> | | item | | |
| | <p>Generally</p> | | | | |
| b | <p>the contractor shall take account of all restrictions which will apply when undertaking the works. The rates and prices inserted shall fully reflect the nature and character of the work and the restrictions imposed</p> | | item | | |
| | <p><u>Sub-Contractor Preliminaries</u></p> <p>Allow for</p> | | | | |
| c | <p>Sub-Contractor's preliminaries for the in-situ concrete works and associated works</p> | | item | | |
| d | <p>Sub-Contractor's temporary works for the in-situ concrete works and associated works</p> | | item | | |
| | <p>Insert below and other preliminary items that you deem to be required along with their associated costs (provide details on additional sheets if required)</p> | | | | |
| | <p><u>PREAMBLES</u></p> | | | | |
| e | <p>Include as appropriate - see RICS NRM2 Appendix A.3 (3) (e)</p> | | item | | |
| | | | | | |
| | | | | to collection | £ |

| | Item | Quantity | Unit | Rate | Cost (£) |
|---|---|----------|------|------|----------|
| | <u>SUBSTRUCTURE</u> | | | | |
| | <u>INSITU CONCRETE WORKS</u> | | | | |
| | <u>Plain in situ concrete; Mix A; in substructures; as specification xxx</u> | | | | |
| | Horizontal work; poured on or against earth or unblinded hardcore | | | | |
| a | not exceeding 300 thick; blinding to pad foundations | 1 | m3 | | |
| | <u>Reinforced in situ concrete; Mix B; in substructures; as specification xxx</u> | | | | |
| | Horizontal work; in blinding | | | | |
| b | exceeding 300 thick; pad foundations | 14 | m3 | | |
| | Horizontal work; in structures | | | | |
| c | not exceeding 300 thick; ground floor slab | 41 | m3 | | |
| d | exceeding 300 thick; perimeter edge beams | 11 | m3 | | |
| | Vertical work; in structures | | | | |
| e | not exceeding 300 thick; columns | 3 | m3 | | |
| | <u>Formwork; plain finish</u> | | | | |
| | Sides of foundations and bases | | | | |
| f | exceeding 500 high | 50 | m2 | | |
| | Edges of horizontal work | | | | |
| g | not exceeding 500 high | 61 | m | | |
| | Sides of isolated columns | | | | |
| h | 300 x 300 square; 16nr | 35 | m2 | | |
| | <u>Reinforcement mesh; as specification xxx</u> | | | | |
| | Reference A193 | | | | |
| i | weight 3.02 kg/m2 with 150 minimum laps; to ground floor slab | 225 | m2 | | |
| | to collection | | | | £ |

| Item | Quantity | Unit | Rate | Cost (£) |
|---|---|-------|------|-----------------|
| <u>SUPERSTRUCTURE</u> | | | | |
| <u>INSITU CONCRETE WORKS</u> | | | | |
| <u>Reinforced in situ concrete; Mix B; in substructures; as specification xxx</u> | | | | |
| Horizontal work; in structures | | | | |
| a | not exceeding 300 thick; floor slab | 213 | m3 | |
| b | not exceeding 300 thick; attached beams | 51 | m3 | |
| Vertical work; in structures | | | | |
| c | not exceeding 300 thick; columns | 20 | m3 | |
| d | not exceeding 300 thick; parapet wall | 5 | m3 | |
| <u>Formwork; plain finish</u> | | | | |
| Soffits of horizontal work | | | | |
| e | for concrete not exceeding 300 thick | 1,080 | m2 | |
| Sides and soffits of attached beams | | | | |
| f | 300 x 300 square; attached beams | 578 | m2 | |
| Sides of isolated columns | | | | |
| g | 300 x 300 square; 80nr | 242 | m2 | |
| Faces of walls and other vertical work | | | | |
| h | vertical; parapet wall | 67 | m2 | |
| Sloping top surfaces | | | | |
| i | exceeding 15 degrees; parapet wall | 11 | m2 | |
| <u>Reinforcement mesh; as specification xxx</u> | | | | |
| Reference A193 | | | | |
| j | weight 3.02 kg/m2 with 150 minimum laps; to ground floor slab | 1,125 | m2 | |
| | | | | to collection £ |

Project Reference ?
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Work Section 11
In-situ Concrete Works

| Item | Quantity | Unit | Rate | Cost (£) |
|---|---------------------|------|------|----------|
| Work Section 11 : In-situ Concrete Works <u>Collection</u> | | | | |
| Page Bill Example : | Work Section 11 / 1 | | £ | |
| Page Bill Example : | Work Section 11 / 2 | | £ | |
| Page Bill Example : | Work Section 11 / 3 | | £ | |
| Work Section 11 : In-situ Concrete Works <u>Carried to Summary</u> | | | £ | |