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Leitrim County Council

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Shesknan Bridge Works

Volume C: Pricing Document

25319-DID-03-XX-BQ-C-0001



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Preambles to Bill of Quantities

General Directions

- 1 The Bill of Quantities has been prepared in accordance with the Method of Measurement for Road Works.
- 2 In the Bill of Quantities the sub-headings and item descriptions identify the work covered by the respective items, read in conjunction with the matters listed against the relevant marginal headings "Item Coverage" in Chapter IV of the Method of Measurement for Road Works, these Preambles and the amendments to the Method of Measurement immediately following these Preambles. The nature and extent of the work is to be ascertained by reference to the Works Requirements and Contract Conditions. The rates and prices entered in the Bill of Quantities shall be deemed to be the full inclusive value of the work covered by the several items including the following, unless expressly stated otherwise:
 - (i) Labour and costs in connection therewith.
 - (ii) The supply of materials, goods, storage and costs in connection therewith including delivery to Site. Taking delivery of materials and goods supplied by others, unloading, storage, and costs in connection therewith.
 - (iii) Plant and costs in connection therewith.
 - (iv) Fixing, erecting and installing or placing of materials and goods in position.
 - (v) Temporary Works.
 - (vi) The effect on the phasing of the Works or any element of the Works to the extent set forth or reasonably implied in the documents on which the tender is based.
 - (vii) General obligations, liabilities and risks involved in the execution of the Works set forth or reasonably implied in the documents on which the tender is based.
 - (viii) Establishment charges, overheads and profit.
 - (ix) Waste.
 - (x) Attendance and transport for sampling and testing carried out by the Employer's Representative, tests carried out by the Contractor, supplying results of tests carried out by the Contractor and providing test certificates.
 - (xi) Complying with Quality Assurance schemes and providing certificates of conformity.

(xii) Preparation and supply of detailed working drawings.

(xiii) Awaiting approvals and or consents.

Measurement	3	(i) The measurement of work shall be computed net from the dimensions stated in the Contract unless otherwise stated in the Method of Measurement. (ii) Where the tender documents provide for the Contractor to select the type of buried structure (where the structure is not within Designated Outlines) to be constructed then the measurement of all work in each area so affected shall be based upon the thinnest pavement construction and surfacing over structures permitted by the Contract in that area for the particular type of buried structure the Contractor has elected to construct.
Pricing of Items	4	Each individual item shall have a rate or price entered against it. Rates and prices shall be expressed to two decimal places.
Alternative Specified Materials, Designs and Options Within Types of Pavement	5	<i>Not used</i>
Privately and Publicly Owned Services or Supplies	6	The information in the Contract as to the whereabouts of existing services and mains is believed to be correct but the Contractor shall be relieved thereby of his obligations under the Contract. The shall include in his rates and prices for locating and taking the support and full protection of pipes, cables and other apparatus the progress of the Works, obtaining the written consent of the authority to interrupt the service or supply and for keeping the Representative informed of all arrangements he makes with the privately owned services or supplies, Statutory Undertakers and Authorities as appropriate.
Labours	7	<i>Not used</i>
Roadworks Overall Requirements	8	The Contractor shall allow in his rates and prices for complying requirements in respect of pavement construction, horizontal surface levels and surface regularity of pavement courses, cold working, use of surfaces by traffic and construction plant, and requirements for sub-bases and bases.
Work Within and Below Any Water Condition	9	The Contractor shall allow in his prices for any items of designed by the Contractor provided under Series 2500, for measures required to execute work in any condition where presence of any type of water
Dealing with Flow	10	The Contractor shall allow in his rates and prices for taking measures to deal with the existing flow of water, sewage and the like.
	11	<i>Not used</i>

Site Limitations and Constraints**Hard Material**

12 The Contractor shall allow in his rates and prices for complying any limitations and constraints on the use of the Site.

13 For the purposes of the Contract the following are designated as Hard Material in accordance with chapter Definitions, paragraph 1 (i)(i): (a)* strata;

(b) those deposits designated by limits shown on the Drawings;

(c) existing pavements, footways, paved areas (but excluding unbound materials) and foundations in masses in excess of 0.20 cubic metres.

Equivalent Products and Materials

14 Where the Contractor offers an equivalent product or material in place of the one identified or specified, which is accepted for incorporation into the Works by the Employer's Representative, then the rates and prices in the Bill of Quantities shall be deemed to include for all the obligations and costs associated with the incorporation of the equivalent into the Works, including design, provision of data and drawings, certificates, awaiting approvals, resubmissions and modifications and amendments to the Works.

Unless specifically stated to the contrary in the Contract the measurement of the Works affected by the incorporation of the equivalent products and materials shall be based on the Tender documents and not on the Works as amended and completed to incorporate the equivalent products and materials.

Permanent Works Designed by the Contractor

15 Where the Contract requires part(s) of the Works to be designed by the Contractor, the rates and prices in the Bill of shall include for all the obligations and costs associated with the incorporation of the Contractor's design into the Works, including provision of data and drawings, certificates, awaiting approvals, resubmissions and modifications and amendments to the Works.

Structures Designed by the Contractor

16 Earthworks within the Designated Outlines shall not be included Employer in the earthworks schedules.

Alterations for Road Authorities

17 *Not used*

Amendments to the Method of Measurement

18 For the purposes of the Contract the Method of Measurement for Road Works is amended in accordance with the pages immediately following.

Layout of Bill of Quantities

BILL PART 1: PRELIMINARIES

Series 100	Preliminaries
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BILL PART 2: STRUCTURES

Series 200	Site Clearance
Series 300	Fencing and Environmental Noise Barriers
Series 500	Drainage Requirements
Series 600	Earthworks
Series 700	Road Pavements – General
Series 1100	Kerbs, Footways and Paved Areas
Series 1200	Traffic Signs and Road Markings
Series 1700	Structural Concrete
Series 2000	Waterproofing for Concrete Structures
Series 2300	Bridge Expansion Joints
Series 2400	Brickwork, Blockwork & Stonework
Series 2700	Requirements for Watermains

Item	Description	Unit	Quantity	Rate	Amount €
	CC-RMP-00100 Preliminaries				
	Temporary Accommodation				
1	Erection of offices and messes for the Contractor.	item	1		€ -
2	Erection of stores and workshops for the Contractor.	item	1		€ -
3	Servicing of offices and messes for the Contractor.	item	1		€ -
4	Servicing of stores and workshops for the Contractor.	item	1		€ -
5	Dismantling of offices and messes for the Contractor.	item	1		€ -
6	Dismantling of stores and workshops for the Contractor.	item	1		€ -
	Traffic Safety and Management				
7	Traffic Safety, Management and Maintenance as per Appendix 1/17.	item	1		€ -
8	Temporary Diversions for Traffic as per Appendix 1/18.	item	1		€ -
	Emergency Services				
9	Emergency Services.	item	1		€ -
	Progress Photographs				
10	Provide progress photographs as described in Appendix 1/22.	item	1		€ -
	Project Supervisor for the Construction Stage				
11	Acceptance of Appointment as Project Supervisor for the Construction Stage. This item is to include for all Contractor Supervision for the works.	item	1		€ -
	Contractor Design				
	<i>Design & Detailing in accordance with Appendix 1/10, of the following:</i>				
12	Precast Prestressed Concrete MY1 Beams and Factory Cast Edge Beams.	item	1		€ -
	Safety File				
13	In accordance with CC-RMP-00010.	item	1		€ -
	As Built Records				
14	As built records as per Appendix 1/70 of the specification.	item	1		€ -
	TOTAL PAGE 1				€ -

Item	Description	Unit	Quantity	Rate	Amount €
	CC-RMP-00100 Preliminaries				
	Waste Management Plan				
15	Provision of Waste Management Plan.	item	1	€	-
	Protection of Water Quality				
16	Measures to ensure protection of water quality, watercourse and neighbouring SACs/SPAs. (Note: The Contractor is advised to appoint an Ecological Clerk of Works to determine appropriate mitigation strategies and frequency of water sampling).	item	1	€	-
	Protection of Existing Works				
17	Protection of existing structures and provision of records for structures uncovered.	item	1	€	-
	Temporary Works				
18	Provision of all necessary temporary works as required to facilitate the works and deemed necessary (please note a list of anticipated temporary works has been provided within Appendix 1/11, however, this list should not be considered exhaustive).	item	1	€	-
19	Taking measures for the design, construction, maintenance and removal of temporary access construction platforms as Appendix 1/71 of the Specification.	item	1	€	-
20	Allow for all measures to temporarily divert the river flow to allow all in-river works be undertaken in the dry.	item	1	€	-
	Water Testing				
21	Collection and testing of water samples. (Note: The Contractor is advised to appoint an Ecological Clerk of Works to determine appropriate mitigation strategies and frequency of water sampling).	item	1	€	-
	Special Ecological Measures				
22	Adherence with and implementation of ecological requirements outlined within Appendix 70/1.	item	1	€	-
	Ecological Clerk of Works Appointment (ECoW)				
23	Appointment of an Ecological Clerk of Works (ECoW) for the duration of the project.	item	1	€	-
TOTAL PAGE 2					€ -

	Description	Unit	Quantity	Rate	Amount €
	CC-RMP-00100 Preliminaries				
	Statutory Authority Liaison				
24	Leitrim County Council Liaison to Appendix 1/72.	item	1		€ -
25	Inland Fisheries Ireland Liaison to Appendix 70/2	item	1		€ -
26	Utility Providers (ESB, Eir & Uisce Éireann) Liaison to Appendix 1/16	item	1		€ -
	Working and Fabrication Drawings				
27	Provision in accordance with Appendix 1/4.	item	1		€ -
	Testing				
28	Testing to Appendix 1/5.	item	1		€ -
	Samples				
29	Provision of samples to Appendix 1/6.	item	1		€ -
	Facilities for Service Undertakers and Other Contractors				
30	Protection of Buried Services.	item	1		€ -
31	Consultation and Liaison with landowners prior to entering land.	item	1		€ -
	TOTAL PAGE 3				€ -
	TOTAL SERIES 00100 - PRELIMINARIES	To Grand Summary			€ -

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Item	Description	Unit	Quantity	Rate	Amount €
	CC-RMP-00300 Fencing and Environmental Noise Barriers				
	Fencing				
1	Provision and installation of temporary fencing as required to provide a secure construction site / compound.	unit	1		€ -
2	Erection of CC-SCD-00321 treated timber post, tension mesh fencing and associated foundations as per Appendix 3/2	m	20		€ -
	TOTAL SERIES 00300 - FENCING AND ENV. NOISE BARRIERS	To Grand Summary			€ -

Item	Description	Unit	Quantity	Rate	Amount €
	CC-RMP-00500 Drainage Requirements				
	Filter Drains, Narrow Filter Drains & Fin Drains				
1	Filter Drains, 150mm Ø uPVC perforated pipe with type B filler material in trench with geotextile lining per Appendix 5/4	m	25		€ -
	TOTAL SERIES 00500 - DRAINAGE REQUIREMENTS	To Grand Summary			€ -

Item	Description	Unit	Quantity	Rate	Amount €
	CC-RMP-00600 Earthworks				
	<i>Note: All excavation, disposal, fill and compaction works are to be undertaken strictly in accordance with the requirements of Appendix 6/1, 6/2, 6/3 and 6/6.</i>				
	Installation of Bridge Abutments				
1	Excavation of acceptable material excluding Class 5A.	m ³	250		€ -
	Hard Material				
2	Extra over for excavation in hard material.	m ³	25		€ -
	Rock Armour				
3	Excavation of acceptable material excluding Class 5A.	m ³	100		€ -
	Carriageway Removal				
4	Removal of additional carriageway extents to allow for resurfacing.	m ³	5		€ -
	Disposal				
5	Disposal of unacceptable material.	m ³	250		€ -
	Imported Fill				
	Abutment Backfill				
6	Abutment Backfill - 6N Fill to Specification Appendix 6/6.	m ³	100		€ -
7	Abutment Backfill - 6F5 Fill to Specification Appendix 6/6	m ³	30		€ -
	Rock Armour				
8	Supply and place imported cut stone rock armour, as per Specification Appendix 6/70, approximately 1m wide, to include concrete mortar as per Appendix 6/70.	m	60		€ -
	Compaction				
9	Compaction of imported Type B fill to prepare subbase for pavement works.	m ³	10		€ -
10	Compaction of imported 6N Abutment Backfill.	m ³	100		€ -
	Compaction of imported 6F5 Abutment Backfill.	m ³	30		€ -
	Topsoiling				
11	Topsoiling 150mm thick to surfaces sloping less than 10° to the horizontal.	m ²	250		€ -
	Grass Seeding				
12	Grass seeding to surfaces sloping less than 10° to the horizontal.	m ²	250		€ -
	TOTAL SERIES 00600 - EARTHWORKS	To Grand Summary			€ -

Item	Description	Unit	Quantity	Rate	Amount €
	CC-RMP-00700 Pavements				
1	Surface Course: 45mm AC14 dense 70/100 surface course to Series 900, Clause 906.	m²	65		€ -
2	Binder Course: Dense Binder Course (recipe mix) to Series 900, Clause 906, AC 20 dense bin, 40/60 rec, 55mm thickness.	m²	60		€ -
3	Roadbase: Dense Base Course (recipe mix) to Series 900, Clause 906, AC 32 dense base 40/60 rec, 100mm thickness.	m²	55		€ -
4	Sub-base: UGM A granular material to Series 800 Clause 804 Table 8/6.	m²	55		€ -
5	Capping: 6F2 Granular Material TII Series 6000, SPRW, Table 6/2.	m²	55		€ -
	TOTAL SERIES 00700 - PAVEMENTS	To Grand Summary			€ -

Item	Description	Unit	Quantity	Rate	Amount €
	CC-RMP-01100 Kerbs, Footways and Paved Areas				
	Kerbs				
1	Cast In-Situ Concrete Rubbing Strip to Appendix 11/1.	m	19.0		€ -
2	125x150mm bullnose (BN3) precast concrete road kerb to BS EN 1340:2003	m	19.0		€ -
3	25mm thick mortar bedding	m ²	0.5		€ -
	TOTAL SERIES 01100 - KERBS, FOOTWAYS AND PAVED	To Grand Summary			€ -

Item	Description	Unit	Quantity	Rate	Amount €
	CC-RMP-01200 Traffic Signs and Road Markings				
	Reflective Markers				
1	Installation of flexible bollards as per TII CC-SCD-01206	unit	4.0		€ -
	TOTAL SERIES 01200 - TRAFFIC SIGNS & ROAD MARKINGS	To Grand Summary			€ -

Item	Description	Unit	Quantity	Rate	Amount €
	CC-RMP-01700 Structural Concrete				
	In Situ Concrete; Bridge Deck, Bridge Abutments, Concrete Verges & Ancillary Concrete				
1	In Situ Concrete, C45/55 for deck to Appendix 17/1.	m ³	14.0		€ -
2	In Situ Concrete, C45/55 abutments to Appendix 17/1.	m ³	35		€ -
3	In Situ Concrete, C25/30 for run-on slabs to East and West abutments back to existing abutment to Appendix 17/1.	m ³	20		€ -
4	9m Precast Concrete MY1 Beams - Contractor Designed Element per Appendix 1/10. Concrete Surface Finish to be in accordance with Appendix 17/3.	No.	6		€ -
5	Minimum depth 200mm raised concrete verge. Concrete Surface to be in accordance with CC-SPW-1100.	m ³	4		€ -
6	ST1 concrete blinding to Appendix 26/1.	m ³	4.0		€ -
	Steel Reinforcement for Structures				
7	Steel bar reinforcement Grade B500B or B500C to BS 4449 nominal size 16 mm and over not exceeding 5.7 metres in length for East & West Abutment Wall.	t	0.71		€ -
8	Steel bar reinforcement Grade B500B or B500C to BS 4449 nominal size 25 mm and over not exceeding 6 metres in length for East & West Abutment Wall.	t	3.8		€ -
9	Steel bar reinforcement Grade B500B or B500C to BS 4449 nominal size 20 mm and over not exceeding 6 metres in length for East & West Abutment Base Slab.	t	2.7		€ -
10	Steel bar reinforcement Grade B500B or B500C to BS 4449 nominal size 16 mm and over not exceeding 12 metres in length for bridge deck.	t	0.56		€ -
11	Steel bar reinforcement Grade B500B or B500C to BS 4449 nominal size 20 mm and over not exceeding 12 metres in length for bridge deck.	t	1.85		€ -
12	Steel Bar Reinforcement for Precast Concrete MY1 Beams - Contractor Designed Element per Appendix 17/1. Estimate of steel tonnage only.	t	1.5		€ -
	Surface Finish of Concrete - Unformed				
13	Bridge Deck Overslab (U2 Finish), Horizontal, more than 300mm wide.	m ²	60		€ -
14	U3 finish on exposed surfaces.	m ²	60		€ -
	Surface Finish of Concrete - Formwork				
15	Formwork, Vertical more than 300mm wide Class F2 on un-exposed surfaces.	m ²	35		€ -
16	Formwork, Vertical more than 300mm wide Class F4 on exposed surfaces.	m ²	35		€ -
	TOTAL SERIES 01700 - STRUCTURAL CONCRETE	To Grand Summary			€ -

Item	Description	Unit	Quantity	Rate	Amount €
	CC-RMP-02000 Waterproofing for Structures				
	Surface Impregnation and Coatings of Concrete				
1	Bridge Deck: Sika® Ergodur® epoxy overlay and Sikalastic® liquid applied membrane or similar approved. Item includes 20mm layer of Red Sand Asphalt as per Contract Drawings within Appendix 0/4. (Waterproofing to project min. 750mm down face of abutment shelf), in accordance with Appendix 20/2.	m ²	180		€ -
2	Below Ground Concrete Surfaces: 2 No. Coats of bituminous waterproofing to entire back face of buried concrete abutments, Fosroc Mulseal DP (or similar approved), in accordance with Appendix 20/2.	m ²	50		€ -
TOTAL SERIES 02000 - WATERPROOFING		To Grand Summary			€ -

Item	Description	Unit	Quantity	Rate	Amount €
	CC-RMP-02300 Bridge Expansion Joints				
	Expansion Joints				
1	Provision and installation of expansion joints in accordance with Appendix 23/1.	m	7.0		€ -
	TOTAL SERIES 02300 - BRIDGE EXPANSION JOINTS	To Grand Summary			€ -

Item	Description	Unit	Quantity	Rate	Amount €
	CC-RMP-02400 Brickwork, Blockwork and Stonework				
	Stonework; masonry; random rubble; cement mortar in accordance with Specification, Appendix 4/7, 24/1 and 24/2				
1	450mm thick, 1250mm high masonry parapet walls.	m	19		€ -
2	Half round cut stone coping.	m	19		€ -
	TOTAL SERIES 02400 - BRICK, BLOCK AND STONWORK	To Grand Summary			€ -

Item	Description	Unit	Quantity	Rate	Amount €
	CC-RMP-02700 Requirements for Watermains				
	Filter Drains, Narrow Filter Drains & Fin Drains				
1	Temporary diversion of watermain to Appendix 27/1	item	1		€ -
2	Permanent replacement of watermain to Appendix 27/1	item	1		€ -
	TOTAL SERIES 02700 - REQUIREMENTS FOR WATERMAINS	To Grand Summary			€ -

Item	Description				
	Grand Summary				
	Series Sub-Totals		Euro (€)		
1	CC-RMP-00100 Preliminaries		€0		
2	CC-RMP-00200 Site Clearance		€0		
3	CC-RMP-00300 Fencing and Environmental Noise Barriers		€0		
4	CC-RMP-00500 Drainage Requirements		€0		
5	CC-RMP-00600 Earthworks		€0		
6	CC-RMP-00700 Road Pavements - General		€0		
7	CC-RMP-01100 Kerbs, Footways and Paved Areas		€0		
8	CC-RMP-01200 Traffic Signs and Road Markings		€0		
9	CC-RMP-01700 Structural Concrete		€0		
10	CC-RMP-02000 Waterproofing for Concrete Structures		€0		
11	CC-RMP-02300 Bridge Expansion Joints		€0		
12	CC-RMP-02400 Brickwork, Blockwork, Stonework		€0		
13	CC-RMP-02700 Requirements for Watermains		€0		
	Total:		€ 0		