



THE HIGHWAYS AGENCY



THE SCOTTISH OFFICE DEVELOPMENT DEPARTMENT



**THE WELSH OFFICE
Y SWYDDFA GYMREIG**



**THE DEPARTMENT OF THE ENVIRONMENT FOR
NORTHERN IRELAND**

Bill of Quantities for the Specification of Geodetic Surveying Services

Summary: This part of section 1 of Volume 5 of the MCHW is part of the Specification for Geodetic Surveys. It contains a model Bill of Quantities and a list of provisional items in Appendix 1

REGISTRATION OF AMENDMENTS

Amend No	Page No	Signature & Date of incorporation of amendments	Amend No	Page No	Signature & Date of incorporation of amendments

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VOLUME 5 **CONTRACT
DOCUMENTS FOR
SPECIALIST
ACTIVITIES**
SECTION 1 **GEODETIC
SURVEYS**

PART 4

**BILL OF QUANTITIES FOR THE
SPECIFICATION FOR GEODETIC
SURVEYING SERVICES**

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1. INTRODUCTION

This part of section 1 of Volume 5 of the MCHW is part of the Specification for Geodetic Surveys. It contains a model Bill of Quantities and a list of provisional items in Appendix 1.

2. PREAMBLE TO THE BILL OF QUANTITIES

2.1 General Directions

In the Bill of Quantities the sub-headings and item descriptions identify the work covered by the respective items, but the exact nature and extent of the work to be performed is to be ascertained by reference to the Drawings, Specification and Conditions of Contract, as the case may be.

The rates entered in the Bill of Quantities shall be deemed to be the full inclusive of the work covered by items specified and shall include the following unless expressly stated otherwise:

- a. Labour and all associated costs.
- b. The supply of materials, goods and associated costs including delivery to the contract area, the Engineer's office or to the Survey advisor and allowing for any wastage.
- c. Plant, temporary works and all associated costs.
- d. The fixing, erecting and installing or placing of materials and goods in position.
- e. Special precautions required to prevent the spread of notifiable contagious animal diseases.
- f. General obligations, liabilities and risks involved in the execution of the works specified or reasonably implied in the documents on which the tender is based.
- g. Establishment charges, overheads and profits.

3. MEASUREMENT

The measurement of work shall be computed nett from the Drawings unless otherwise stated in the Contract.

4. RATES

- a. Items against which no price or rate is entered shall be deemed to be covered by the other rates and prices in the Bill of Quantities.
- b. Where the Survey Advisor requires other survey stations in the control net to be permanently marked these will be charged at the rate for Permanent Ground Markers of the same type as that adopted.

5. MODEL BILL OF QUANTITIES

Item No	Description	Quantity	Unit	Rate	£
	1. <u>SURVEY</u>				
1.	Establish control framework and supply schedule of horizontal and vertical control used		Item		
2.	Construct, coordinate and height PGM Type 1		No.		
3.	Construct, coordinate and height PGM Type 2		No.		
4.	Construct, coordinate and height PGM Type 3		No.		
5.	Construct, coordinate and height PGM Type 4		No.		
6.	Construct, coordinate and height PBM Type 1		No.		
7.	Construct, coordinate and height PBM Type 2		No.		
8.	Fly aircraft to contract area and return to base		Item		
9.	Fly and photograph area to be mapped at :- a. 1/500 scale b. 1/1000 scale c. 1/1250 scale d. 1/2500 scale		Hectare		
10.	Supply one set of diapositives and one flight index plan		Set		
11.	Supply one set of contact prints and one flight index		Set		
12.	Survey by aerial methods areas to be mapped and levelled including all necessary fieldwork (other than construction of PGM's or PBM's) <u>OR</u> Survey by ground methods areas to be mapped and levelled including all necessary fieldwork (other than construction of PGM's or PBM's)		Hectare		

Item No	Description	Quantity	Unit	Rate	£
	2. <u>MAPPING</u>				
1.	Plot survey and supply (in Digital format) areas				
	(i) One preliminary copy transparency		Set		
	(ii) One preliminary copy paper		Set		
	(iii) Two proof copies of master transparency of each of the following		Set		
	(a) 1/xxxx scale				
	(i) with contours		Set		
	<u>OR</u>				
	(ii) without contours				
	(b) 1/xxxx scale				
	(i) with contours				
	<u>OR</u>				
	(ii) without contours				
	(c) add contours to OS digital mapping				
	Supply ...No. sets of digital information in format detailed in the specification				
	Supply additional set of final copies (film)				
2.	Supply additional set of final copies (paper)		Item		
3.			Set		
4.			Set		

Item No	Description copy	Quantity	Unit	Rate	£
	<u>APPENDIX 1</u>				
1.	Fly aircraft to contract area and return to base		Item		
2.	Establish field party and return to base		Item		
3.	Supply additional set of Set diapositives and flight index		Set		
4.	Supply additional set of contact prints and flight index		Set		
5.	Supply additional set of preliminary copies (film)		Set		
6.	Supply additional set of preliminary copies (paper)		Set		
7.	Supply additional set of final copies (film)		Set		
8.	Supply additional set of final copies (paper)		Set		
9.	Traffic Safety & Management on Hard Shoulder per km/day		km-day		
10.	Traffic Safety & Management on Offside Lane per km/day		km-day		