



Highways Maintenance Efficiency Programme

The Form of Contract for Highway Maintenance Services

Method of Measurement

July 2015 – Version 1



Although this Method of Measurement was commissioned by the Department for Transport, the findings and recommendations are those of the authors and do not necessarily represent the views of the Department for Transport. The information or guidance in this document (including third-party information, products and services), is provided by Department for Transport on an 'as is' basis, without any representation or endorsement made and without warranty of any kind whether expressed or implied.

Department for Transport
Great Minster House
33 Horseferry Road
London
SW1P 4DR

Telephone 0300 330 3000
Email: highwaysefficiency@dft.gsi.gov.uk
Website: www.dft.gov.uk

© Crown copyright 2015
Copyright in the typographical arrangement rests with the Crown.

You may re-use this information (not including logos or third-party material) free of charge in any format or medium, under the terms of the Open Government Licence. To view this licence, visit www.nationalarchives.gov.uk/doc/open-government-licence/ or write to the Information Policy Team, The National Archives, Kew, London TW9 4DU, or email: psi@nationalarchives.gsi.gov.uk

Where we have identified any third-party copyright information you will need to obtain permission from the copyright holders concerned.

Images on cover sheet courtesy of HMEP

This report is supported by the following organisations:



FOREWORD

ABOUT THE HIGHWAYS MAINTENANCE EFFICIENCY PROGRAMME

The Highways Maintenance Efficiency Programme (HMEP) is a sector-led transformation initiative that will maximise returns from investment and deliver efficiencies in highway maintenance services. The Programme started in April 2011 with sponsorship from the Department for Transport and is intended to run until 2020.

The Programme is offering local highway practitioners benefits from different ways of working. The vision is that those involved in highways maintenance delivery (the local authorities as clients and their service providers, be they from the private or public sector) will over time adopt an ambitious and longer-term approach to enable them to:

- continuously find new and improved ways of delivering services to highway users and managing highways assets
- make use of collaborative partnerships to improve processes and outcomes
- deliver a sustainable balance between meeting the needs of highways users, improving quality and minimising costs.

The guidance and efficiency toolkits developed by the Programme have been overseen by the HMEP Programme Board comprising key personnel who support the Programme's aims and ambitions. This ensures that:

- the Programme is truly being driven by what the whole sector needs and wants ('by the sector for the sector')
- the solutions identified by the sector are relevant, realistic, repeatable, scalable and sustainable
- HMEP is benefits-led, driving true transformation of the sector with tangible efficiency gains and a lasting legacy.

As a transformation initiative, HMEP is targeting the ways that Local Highway Authorities conduct their business. It invites the sector to adopt new ways of working to deliver efficiency savings through:

- **Collaboration & Change** – looking at how alliances between authority clients and their providers can be formed to deliver efficiencies in the delivery of highway maintenance services. Other projects are looking at changing business processes and culture, for instance by applying LEAN thinking to the processes behind service delivery and how services can be streamlined to realise efficiencies
- **Procurement, Contracting and Standardisation** – advising on the routes to procurement enabling authorities to determine how their highway service is aligned to current thinking and which is the best procurement option to realise their future service ambitions. It also provides the tools so that efficiencies can arise through the use of, for instance, a standardised form of contract, a Price List comprising the most commonly used items, a Method of Measurement targeted at highway term maintenance activities

and a highway maintenance specification which is better aligned to the activities that Local Highway Authorities undertake

- **Asset Management** – to advocate moving away from a reactive to a longer-term approach for maintaining highways assets by providing advice to the sector in the form of updated asset management guidance supported by a life-cycle planning tool for both a simplistic and, where appropriate, more complex determination of whole-life asset costs. HMEP is also providing training specifically targeted at asset management practitioners to help them move towards an asset management approach and to adopt the new HMEP guidance and tools
- **Benchmarking & Performance** – collecting, sharing and comparing performance data on customer/quality/cost to show how effective Local Highway Authorities are both in delivering value-for-money services and in driving targeted efficiencies.

Products and tools have been developed for each of these themes and are being designed to be interdependent, but complementary, so that authorities can maximise their returns on their investments.

INTRODUCTION TO THE HMEP PRICE LIST AND METHOD OF MEASUREMENT

The HMEP Price List and Method of Measurement have been designed to enable Local Highway Authorities to procure a Term Service Contract in conjunction with other HMEP procurement products such as:

- HMEP Agreement & Contract Data Parts 1 & 2
- HMEP Service Information
- HMEP Price List
- HMEP Method of Measurement
- HMEP Specification & Standard Details

The HMEP Price List and Method of Measurement are also accessible within the HMEP Document Compiler along with the other HMEP documents listed above.

The HMEP Price List and Method of Measurement adopt the same ideology within other HMEP documents by rationalising the many bespoke items that Local Highway Authorities currently use to a core of those most commonly used for term service highway maintenance activities. This simplification will help to standardise working practices, reduce the burden on Contractors when pricing documents at tender and reduce Client administration. More importantly, there should be transparency and cooperation between the parties to fully define the Service when the work is tendered and to achieve best value on highway maintenance contracts.

The HMEP Price List and Method of Measurement follow the same principles as Volume 4: Bills of Quantities for Highway Works, published by the Department for Transport, wherever possible and only deviating where no such item or supporting definitions, units, itemisation etc. exists or where the item coverage is inappropriate for a highways maintenance Contract.

The HMEP Method of Measurement contains the measurement rules for these items, supporting the HMEP Price List.

The HMEP Price List and Method of Measurement have been developed by HMEP with support from members of ADEPT and HTMA. HMEP would welcome feedback on these products and suggestions for any proposed amendment or further development. If you wish to make a comment, please send an email to highwayefficiency@dft.gsi.gov.uk with the header “Feedback on the HMEP Price List & Method of Measurement”.

HOW WILL THIS HELP YOU DELIVER MORE EFFICIENT SERVICES?

The benefit of a standard Price List and Method of Measurement for Highway Term Service Contracts means that there is consensus over how it is used, applied and understood. The targeted efficiency savings that the HMEP seeks to achieve will not be realised if Local Highway Authorities continue to make significant changes for local preference. There may be valid reasons why a Local Highway Authority wishes to introduce new items that are relevant to their service. To assist the HMEP in its understanding of why these changes are required we would like to hear from the industry with suggestions for improvements and continued development. If you wish to help then please let HMEP have your feedback and suggestions for improvement for consideration using the email address highwayefficiency@dft.gsi.gov.uk with the header “Feedback on the HMEP Price List & Method of Measurement”.

SECTOR SUPPORT AND DEVELOPMENT

Should you need a more detailed overview of the HMEP Price List or the HMEP Method of Measurement, please contact Keith Gale of Hampshire County Council. Keith can be contacted by telephone on 01962 847 271 and by email using keith.gale@hants.gov.uk. Keith was one of the authors of both the HMEP Price List and Method of Measurement and represented ADEPT on the development panel.

COMMENTS AND FEEDBACK

The HMEP Programme Board would welcome any comments and feedback on this suite of documents so that it may be reviewed, improved and refined to give the sector the best advice possible. If you wish to make a comment, please send an email to highwayefficiency@dft.gsi.gov.uk with the header “Feedback on the HMEP Suite of Contract Documents”.

CONTENTS

FOREWORD.....	III
CONTENTS	VI
PREFACE.....	1
DEFINITIONS	2
GENERAL PRINCIPLES.....	4
PREPARATION OF PRICE LIST	5
PREAMBLES TO HMEP PRICE LIST.....	6
SECTION ONE: CORE SERIES.....	11
SERIES 100: PRELIMINARIES.....	11
SERIES 150: TRAFFIC MANAGEMENT.....	16
SERIES 200: SITE CLEARANCE.....	20
SERIES 300: FENCING	23
SERIES 400: VEHICLE AND PEDESTRIAN RESTRAINTS	26
SERIES 500: DRAINAGE AND SERVICE DUCTS	34
SERIES 600: EARTHWORKS.....	51
SERIES 700: PAVEMENTS	64
SERIES 1100: KERBS, FOOTWAYS AND BLOCK PAVED AREAS.....	81
SERIES 1200: TRAFFIC SIGNS AND ROAD MARKINGS	98
SERIES 1700: STRUCTURAL CONCRETE	108
SERIES 2000: WATERPROOFING FOR CONCRETE STRUCTURES	114
SERIES 2300: MOVEMENT JOINTS AND SEALING OF GAPS	117
SERIES 2400: BRICKWORK, BLOCKWORK AND STONEMWORK	120
SERIES 3000: LANDSCAPE AND ECOLOGY	122
SERIES 6000: SERVICE ACTIVITY – LANDSCAPE MAINTENANCE	126

SERIES 6100: SERVICE ACTIVITY – DRAINAGE CLEANSING	127
SERIES 6200: SERVICE ACTIVITY – SIGN CLEANING.....	129
SERIES 6300: SERVICE ACTIVITY – MINOR REPAIRS.....	130
SERIES 7400: HIGHWAY CLEANING	131
SERIES 7800: WINTER MAINTENANCE	138
SERIES 7900: EMERGENCY RESPONSE	143
SERIES 8000: TIME CHARGE	145
SERIES 9000: RESTRICTED WORKING.....	149
SECTION TWO: ALTERNATIVE SERIES	151
SERIES 700: PAVEMENTS	151
SERIES 6800: SERVICE ACTIVITY – WINTER MAINTENANCE	167
SERIES 7000: LANDSCAPE MAINTENANCE.....	172
SERIES 7100: DRAINAGE CLEANSING	173
SERIES 7200: SIGN CLEANING	175
SERIES 7300: MINOR REPAIRS.....	176
SECTION THREE: OPTIONAL SERIES	177
SERIES 1300: ROAD LIGHTING COLUMNS AND BRACKETS	177
SERIES 1400: ELECTRICAL WORK FOR ROAD LIGHTING AND TRAFFIC SIGNS.....	183
ACKNOWLEDGEMENTS.....	191

PREFACE

The HMEP Method of Measurement for Highways Maintenance Services (MMHMS) has been approved by the sponsors of the Highways Maintenance Efficiency Programme (HMEP) for use in services allied with highways maintenance. The HMEP Method of Measurement has been designed to be used in conjunction with the HMEP Contract and HMEP Price List. Reference to MMHMS in the *Conditions of Contract* is sufficient to give effect to the use of this Method of Measurement within that Contract.

It is also recommended that reference is made regarding use of this Method of Measurement within the contract documents to the Preambles to the Price List.

The HMEP will review the MMHMS and will consider any suggestions for improvement but compilers of contract documents should ensure that use of this Method of Measurement matches the particular requirements of their project and is classified and covered by their contract specific method of measurement.

The objectives of this Method of Measurement are:

- to standardise the order, content and descriptions of the Price List;
- to provide a structured approach in item descriptions;
- to clarify the elements and resources expected to be included in the price of each item.

DEFINITIONS

In this document entitled HMEP Method of Measurement for Highway Maintenance Services (hereinafter referred to as the Method of Measurement) unless the context otherwise requires, the following words and expressions shall have the meanings hereby respectively assigned to them, that is to say:

- (a) *Conditions of Contract* means the HMEP Conditions of Contract referred to in the Tender and Contract documents;
- (b) Words and expressions to which meanings are assigned in the Service Information, Specification and Contract Drawings have the same meanings in the Method of Measurement;
- (c) Price List means a list of items giving brief identifying descriptions in the execution of the works or services to be performed;
- (d) Existing Ground Level means the level of the ground before any work under the Contract is carried out;
- (e) Hard Material means the following:
 - (i) existing pavements, footways, paved areas (but excluding unbound materials) and foundations in masses in excess of 0.10 cubic metres;
 - (ii) material which requires the use of breakers or splitters for its removal in masses in excess of 0.10 cubic metres;
 - (iii) material so designated as Hard Material in the Price List.
- (f) Material such as natural rock which requires removal by explosives shall be identified separately.
- (g) Where item descriptions are designated as 'not exceeding' or 'exceeding' then the following definitions shall apply:
 - (i) 'not exceeding' means up to and including the stated dimension or quantity;
 - (ii) 'exceeding' means in excess of the stated dimension or quantity.
 - (iii) where the abbreviation of n.e. is used this shall mean 'not exceeding' and exc. shall mean 'exceeding'.

- (h) Where descriptions are designated as 'footway' this shall mean a way adjacent to a carriageway.
- (i) Unless otherwise stated in the Preambles to Price List, the Service Information or the Price List item description of the Method of Measurement, a 'day' shall mean undertaking works or services within normal specified working hours.

GENERAL PRINCIPLES

- | | | |
|-----------------------|---|---|
| Method of Measurement | 1 | The Method of Measurement is intended for use for highway maintenance contracts although amendments may be required for particular Contract Conditions. |
| Price List | 2 | In the Price List 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 for item coverage in the Method of Measurement, Preambles to Price List and amendments. The nature and extent of the work or service to be performed is to be ascertained by reference to the Service Information, Specification, Contract Drawings and Conditions of Contract. |
| Singular or Plural | 3 | In the Price List, singular and plural shall be interchanged as appropriate for each other and no particular meaning shall be assigned with the use of each. |

PREPARATION OF PRICE LIST

Sub-division of Price List 1 The Price List is to be divided into series as provided within the Method of Measurement and as appropriate to the *Conditions of Contract*, Service or Works Information and Drawings.

Quantities 2 Quantities shall be expressed in whole numbers except for units of measurement of tonnes in which case the quantities shall be to two decimal places.

Units of Measurement 3 The following abbreviations shall be used for the units of measurement:

Unit	Abbreviation	Unit	Abbreviation
millimetre	mm	number	no
metre	m	item	item
kilometre	km	month	month
square metre	m ²	week	week
cubic metre	m ³	day	day
kilogramme	kg	hour	hr
litre	l	metre per day	m/day
tonne	t		

Itemisation – Group and Features 4 **General Principles**
Each item description is to be consistent with and be compounded from one or more of the Groups listed under the marginal headings within the Method of Measurement. An item description may contain Features from as many Groups as necessary to identify the Service required, but may include only one Feature from any one Group.

Items in the Price List 5 The Price List, unless expressly stated otherwise in the Contract, is to contain all those items compounded in accordance with the foregoing paragraphs required to comprise the Service.

PREAMBLES TO HMEP PRICE LIST

- General Directions 1 The HMEP Price List has been prepared in accordance with the HMEP Method of Measurement contained within this document. The nature and extent of the Service is to be ascertained by reference to the Service Information, Specification, Contract Drawings and *Conditions of Contract*. The rates and prices entered in the Price List shall be deemed to be the full inclusive value of the Service covered by the several items including the following, unless expressly stated otherwise:
- (i) people, subcontractors, supervision and other associated activities required by the Contract;
 - (ii) materials, plant, storage and costs required by the Contract;
 - (iii) equipment required by the Contract;
 - (iv) fixing, erecting and installing or placing of materials and plant in position;
 - (v) temporary works. (excluding those required for work in series 1700, 2000, 2300 and 2400);
 - (vi) management and programming of individual works and the Service;
 - (vii) general obligations, liabilities and risks involved in the execution of the Service;
 - (viii) establishment charges;
 - (ix) direct and Sub-contract Fees;
 - (x) waste, landfill and other disposal taxes;
 - (xi) attendance and transport for sampling and testing carried out by the *Service Manager*, supplying results of tests carried out by the *Contractor* and providing test certificates;
 - (xii) complying with Quality Assurance schemes and providing certificates of conformity;
 - (xiii) preparation and supply of detailed working drawings and reports including evidence of completed work to the *Service Manager*;
 - (xiv) awaiting approvals and or consents;
 - (xv) calibration of testing equipment to Quality Assurance standards and maintaining to the required tolerances;
 - (xvi) temporary accommodation and mess facilities for the *Contractor* on individual schemes of less than five days programmed duration;
 - (xvii) setting up at each site and movement between a number of sites;
 - (xviii) communication system for the *Contractor*;

		(xix) traffic management as group A in the table in 17 below in these preambles;
		(xx) travelling to, between and from different locations on the network unless measured within Series 8000: Time Charge;
		(xxi) updating information and inventory data to the information database or system.
Summation of Quantities	2	Where applicable, items have been aggregated into lengths, areas, volumes, and weights, to cater for the varying amounts and quantities ordered by the <i>Service Manager</i> . Unless otherwise stated, the measurement of aggregated quantities for each individual Task Order shall be the summation of quantities for each itemisation feature within that Task Order within a single aggregated kilometre measured length. An aggregated length is the shortest carriageway distance travelled from first to last location via the other locations.
Pricing of Items	3	Each individual item shall have a rate or price entered against it. Rates and prices shall be expressed to two decimal places. The <i>Contractor</i> shall price elements of People (Staff and Labour), Equipment, Materials, Sub-contract, Charges (where applicable), Sub-contract and Direct Fees of each indicated operation in the Price List expressed to three decimal places.
Alternative Specified Materials, Designs and Options	4	Where in the Contract a choice of alternatives is permitted the description and the rates and prices inserted shall be deemed to cover any of the permitted alternative Services the <i>Contractor</i> may elect to use. In all cases the rates and prices inserted in the Price List shall be deemed to include for any adjustments of work content, rates, costs and the like occasioned by the choice of alternatives elected to be used or constructed by the <i>Contractor</i> .
Privately and Publicly Owned Services or Supplies	5	Where information in the Contract as to the whereabouts of existing statutory and private services is believed to be correct, the <i>Contractor</i> shall not be relieved thereby of any additional obligations under the Contract. The <i>Contractor</i> shall include in the rates and prices for locating and taking measures for the support and full protection of pipes, cables and other apparatus during the progress of the Service, obtaining the written consent of the appropriate authority to interrupt the service or supply and for keeping the <i>Service Manager</i> informed of all arrangements made with the owners of privately owned services or supplies, Statutory Undertakers and Public Authorities as appropriate.
Dealing with Flow	6	The <i>Contractor</i> shall allow in the rates and prices for taking measures to deal with the flow of surface water, sewage and the like in existing drainage systems but excludes working above, in or below water which impacts on the method of working.

Site Limitations and Constraints	7	The <i>Contractor</i> shall allow in the rates and prices for complying with any limitations and constraints contained in the Service or Works Information.
Permanent Works Designed by the <i>Contractor</i>	8	Where the Contract requires part(s) of the Permanent Works to be designed by the <i>Contractor</i> , the rates and prices in the Price List shall include for all the obligations and costs associated with the incorporation of the <i>Contractor's</i> design into the Works, including design, provision of data and drawings, certificates, awaiting approvals, resubmissions and modifications and amendments to the Works.
Variability of the Service and Quantities	9	The variable nature of maintenance services contracts is such that the items stated in the Price List represent the type of work that is likely to be encountered over the period of the Contract. The actual incidence and amount of work required to be done will be affected by many factors and in particular seasonal requirements, weather, accidents and the like. The <i>Contractor</i> shall allow in the rates and prices for this variability and the irregular and piecemeal nature of the work in order to meet the needs and demands of the Contract.
New Roads and Streetworks Act and Traffic Management Acts	10	The <i>Contractor</i> shall allow in the rates and prices for issuing the relevant notices in accordance with the New Roads and Street Works Act and the Traffic Management Acts.
Issuing of Notices and Letters	11	The <i>Contractor</i> shall allow in the rates and prices for issuing notices to others in execution of the Service.
Equivalent Products and Materials	12	Where the <i>Contractor</i> offers an equivalent product or material in place of the one identified or specified, which is accepted for incorporation into the Service by the <i>Service Manager</i> , then the rates and prices in the Price List 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.
Repairs to Existing Work	13	Unless otherwise stated within the method of measurement, repairs or replacement of existing work shall be measured as site clearance within Series 200 for the removal of the existing work and the relevant series for the new work unless the repair or replacement is due to the result of neglect or negligence of the <i>Contractor</i> .
Restricted Working	14	Where the <i>Service Manager</i> requires the <i>Contractor</i> to work under restricted hours this shall be carried out in accordance with Series 9000. Percentage additions for restricted hours working shall apply to the series stated in Series 9000.

- Disposal of Contaminated, Hazardous or Tar Bound Materials 15 The rates and prices shall not include for handling and disposal of contaminated, hazardous, or tar bound materials. Additional costs for disposal of these materials shall be agreed between the *Service Manager* and the *Contractor*.
- Traffic Management 16 The *Contractor* shall allow in the rates and prices for the erection, maintaining and dismantling traffic safety and management on all highways, structures and footpaths to the layouts identified as Group A in the tables below.
- Traffic management requirements in excess of these situations will be measured separately and paid in accordance with Series 150 and 400 of the Price List identified as Group B in the tables below.
- Traffic management requirements that are not defined as Group A or Group B in the tables below shall be paid as time charge (Series 8000) and are identified as Group C.

Table 1: Traffic Management and Pedestrian Management (as set out in "Safety at Street Works and Road Works - A code of practice" June 2014)

Description	Page	Distance from first to last cone	Group
Basic layout with a works vehicle	21		A
Works entirely on the footway	33		A
Signal - controlled pedestrian facilities at portable traffic signals	62		B
Works on footway with pedestrian diversion into carriageway	34	n.e. 75m exc. 75m	A B
Works between parked vehicles with a speed limit of 30 mph or less	38		A
Works in the centre of a two-way road	39	n.e. 75m exc. 75m	A B
Dual carriageway with a speed limit of 30 or 40 mph. Works in right lane	41		B
Dual carriageway with a speed limit of 30 or 40 mph. Works in left lane	42		B
Works in a side road at a T-junction	44	n.e. 75m exc. 75m	A B
Works in both roads at a T-junction	45	n.e. 75m exc. 75m	A B
Works on a signal island at a T-junction	46	n.e. 75m exc. 75m	A B
Works at a roundabout, cases A to D. on a road with a maximum speed limit of 30 mph on a road with a maximum speed limit exceeding 30 mph	48, 49		A C
Works obstructing a signal-controlled pedestrian crossing. on a road with a maximum speed limit of 30 mph on a road with a speed limit exceeding 30 mph	51		B C

Description	Page	Distance from first to last cone	Group
Give and take on a road with a maximum speed limit of 30 mph	56, 57	n.e. 50m	A
Traffic control by priority signs on a road with a maximum speed limit of 30 mph	58, 59	n.e. 80m exc. 80m	A
on a road with a speed limit exceeding 30 mph			C
Traffic control by Stop/Go boards	60, 61		B
Traffic control by portable traffic signals	62 - 67		B
Traffic control and speed reduction	67, 68		B
By closure of the fast lane slow lane prior to the above traffic control			B
By closure of the fast lane slow lane prior to traffic control by convoy or shuttle working			
Traffic control by Convoy working	68, 69		B
Traffic control by Mobile closure	83 - 92		B
Traffic control by Road Closure	70 - 74		B
Works next to Tramways and railways	74 - 77		C
Pedestrian barrier in addition of that identified above	97 - 98		B

SECTION ONE: CORE SERIES

SERIES 100: PRELIMINARIES

Contract Management

- Units
- 1 The unit of measurement shall be:
- (i) mobilisation of the Contract as defined in the *Contractor's Mobilisation Plan* item
 - (ii) basic facility for fixed contract overhead for provision of the Service month
 - (iii) demobilisation of the Contract as defined in the *Contractor's Demobilisation Plan* item

- Measurement
- 2 The measurement for mobilisation and demobilisation of the Contract shall only be measured once for the whole duration of the Contract including any authorised or extended periods.

Measurement note; the measurement of contract management shall be for every whole month ordered by the *Service Manager*.

- 3 Unless specified otherwise by the Service Information, the measurement of contract management shall be twelve months for each year.

Measurement note; unless specified otherwise by the Service Information, the mobilisation and demobilisation may be paid in instalments according to provisions of the Contract.

- Itemisation
- 4 Separate items shall be provided for contract management in accordance with General Principles and the following:

Group	Feature	
1	1	Mobilisation of the Contract as defined in the <i>Contractor's Mobilisation Plan</i>
	2	Basic facility for fixed contract overhead for provision of the Service
	3	Demobilisation of the Contract as defined in the <i>Contractor's Demobilisation Plan</i>

Mobilisation of the Contract	5	The items for mobilisation of the Contract shall in accordance with the Preambles to the Price List General Directions include for:
Item coverage		<ul style="list-style-type: none"> (a) providing all measures, equipment and resources required to mobilise the Contract ready to undertake services or works; (b) communication, information technology and management systems; (c) accommodation; (d) vehicle's and equipment; (e) infrastructure charges, property and alterations; (f) commissioning and training.
Basic Facility	6	The items for basic facility shall in accordance with the Preambles to the Price List General Directions include for:
Item coverage		<ul style="list-style-type: none"> (a) providing all measures, equipment and resources required to manage the Contract for required services or works; (b) communication, information technology and management systems; (c) utilities, rent and rates, lease requirements and maintenance costs; (d) temporary and permanent accommodation; (e) vehicles and equipment.
Demobilisation of the Contract	7	The items for demobilisation of the Contract shall in accordance with the Preambles to the Price List General Directions include for:
Item coverage		<ul style="list-style-type: none"> (a) providing all measures, equipment and resources required to demobilise the Contract; (b) removal of communication and management systems; (c) removal of accommodation; (d) reinstatement of resources to a condition prior to the Contract; (e) handing over resources to another supplier; (f) decommissioning;

- (g) reinstatement of facilities to the standard required by the Contract.

Temporary Accommodation

- Units 8 The unit of measurement shall be:
- (i) erection and establishment number
 - (ii) maintenance and servicing day
 - (iii) dismantling and removing from site number
- Measurement 9 The measurement for temporary accommodation for the Contractor shall only be measured when the duration of the works exceeds five days. Temporary accommodation for the Contractor where works do not exceed 5 days duration shall be included within the rates and prices of the works.
- 10 The measurement of a day shall be deemed to mean a period of 24 hours duration
- 11 The measurement of maintenance and servicing of temporary accommodation shall not exceed five days for each week.
- Itemisation 12 Separate items shall be provided for temporary accommodation in accordance with General Principles and the following:

Group	Feature	
1	1	Temporary accommodation for the client
	2	Temporary accommodation for the <i>Contractor</i> for works over 5 days
	3	Temporary stores for the <i>Contractor</i> for works over 5 days
2	1	Erection and establishment
	2	Maintenance and servicing
	3	Dismantling and removing from site

- Erection and Establishment of Temporary Accommodation** 13 The items for erection and establishment of temporary accommodation shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) providing all measures, equipment and resources required to establish accommodation;
 - (b) communication, information technology and management systems;
 - (c) equipment;
 - (d) connections.

Maintenance and Servicing of Temporary Accommodation 14 The items for maintenance and servicing of temporary accommodation shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) providing all measures, equipment and resources required to service the temporary accommodation;
 - (b) communication, information technology and management systems;
 - (c) equipment;
 - (d) furnishings, fittings and charges.

Dismantling and Removal of Temporary Accommodation 15 The items for dismantling and removal of temporary accommodation shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) providing all measures, equipment and resources required to dismantle accommodation;
 - (b) removal of communication and management systems;
 - (c) removal of accommodation and disconnection;
 - (d) reinstatement to original condition.

Temporary Information Boards

- Units 16 The unit of measurement shall be:
- (i) erection and establishment number
 - (ii) maintenance and servicing day
 - (iii) dismantling and removing from site number

Measurement 17 The measurement of a day shall be deemed to mean a period of 24 hours duration.

Itemisation 18 Separate items shall be provided for temporary information boards in accordance with General Principles and the following:

Group	Feature	
1	1	Temporary information board
2	1	Stated size or type
3	1	Erection and establishment
	2	Maintenance and servicing
	3	Dismantling and removal from site

Erection and Establishment of Temporary Information Boards 19 The items for erection and establishment of temporary information boards shall in accordance with the Preambles to the Price List General Directions include for:

Item coverage (a) supports;
(b) signs.

Maintenance and Servicing of Temporary Information Boards 20 The items for maintenance and servicing of temporary information boards shall in accordance with the Preambles to the Price List General Directions include for:

Item coverage (a) regular cleaning and inspections of signs;
(b) maintenance of signs;
(c) re-positioning.

Dismantling and Removing from Site of Temporary Information Boards 21 The items for dismantling and removal from site of temporary information boards shall in accordance with the Preambles to the Price List General Directions include for:

Item coverage (a) removal of signs and supports;
(b) reinstatement to original condition.

SERIES 150: TRAFFIC MANAGEMENT

Lane Closures on Dual Carriageways

- Units 1 The unit of measurement shall be:
- (i) establish and remove lane closures number
- (ii) maintain lane closure hour

- Itemisation 2 Separate items shall be provided for lane closures on dual carriageways in accordance with General Principles and the following:

Group	Feature	
1	1	Establish and remove lane closures
	2	Maintain lane closures
2	1	On a road with speed limit up to and including 40mph
	2	On a road with speed limit over 40mph
3	1	Stated lane and lengths
	2	Extra over for additional lengths, lamps or signs

- Establish and Remove Lane Closures** 3 The items for establish and remove lane closures shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) providing all measures, equipment and traffic management resources such as cones, signs, barriers and the like;
- (b) removal and reinstatement on completion;
- (c) notices and communications;
- (d) traffic safety officer;
- (e) consulting with authorities and services;
- (f) plans and layouts;
- (g) traffic counts.

Maintain Lane Closures 4 The items for maintain lane closures shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) maintenance and inspections;
 - (b) batteries and lights for temporary lit cones;
 - (c) all items for the Establishment above, but for maintaining same.

Extra Over for Additional Lengths or Maintenance ordered by the Service Manager 5 The items for extra over for additional lengths or maintenance ordered by the *Service Manager* shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) providing all measures, equipment and additional resources required for additional lengths or additional periods.

Temporary Traffic Control

Units 6 The unit of measurement shall be:

- (i) establish and remove temporary traffic signals, stop/go boards, road closures and diversions, pedestrian barriers number
- (ii) maintain temporary traffic signals, stop/go boards, mobile closures, convoy working hour
- (iii) maintain road closures and diversions day

Measurement 7 The measurement of a day shall be the normal working hours defined by the Contract.

Itemisation 8 Separate items shall be provided for temporary traffic control in accordance with General Principles and the following:

Group	Feature
1	1 Establish and remove temporary traffic signals
	2 Maintain temporary traffic signals
	3 Establish and remove stop/go boards
	4 Maintain stop/go board
	5 Road closures and diversions

	6	Pedestrian barrier
	7	Mobile closures
	8	Convoy working
2	1	On two lane single carriageway
3	1	Stated situations or resources

Group 2 Feature 1 shall only apply to Group 1 Features 1, 2, 3, and 4.

Establish and Remove Temporary Traffic Signals, Stop/Go Boards, Road Closures and Diversions, Pedestrian Barriers

Item coverage

9 The items for establish and remove temporary traffic signals, stop/go boards, road closures and diversions, pedestrian barriers shall in accordance with the Preambles to the Price List General Directions include for:

- (a) providing all measures, equipment and traffic & pedestrian management resources such as cones, signs, barriers, traffic lights;
- (b) removal and reinstatement on completion;
- (c) notices and communications;
- (d) communication and management systems;
- (e) equipment;
- (f) traffic safety officer;
- (g) consulting with authorities and services;
- (h) plans and layouts;
- (i) traffic counts;
- (j) gated vehicle access control points in respect of Road closures and diversions.

Maintain Temporary Traffic Signals, Stop/Go Boards, Roads Closures and Diversions, Pedestrian Barriers

10 The items for maintain temporary traffic signals, stop/go boards, road closures and diversions, pedestrian barriers shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage (a) maintenance and inspections;
- (b) maintaining all measures, equipment and resources;
- (c) all items for the establishment above, but for maintaining same.
- Mobile Closures** 11 The items for mobile closures shall in accordance with the Preambles to the Price List General Directions include for:
- Item coverage (a) vehicles;
- (b) ancillary equipment;
- (c) operatives.
- Convoy Working** 12 The items for convoy working shall in accordance with the Preambles to the Price List General Directions include for:
- Item coverage (a) vehicles;
- (b) ancillary equipment;
- (c) operatives.

SERIES 200: SITE CLEARANCE

Take Up or Down and Dispose off site or Set Aside for Re-use

Units	1	<p>The unit of measurement shall be:</p> <p>take up or down and dispose off site or set aside for re-use;</p> <p>(i) paved areas and the like square metre</p> <p>(ii) kerbs, channels, edgings, combined drainage and kerb blocks, fencing, safety fences and the like, pedestrian guardrail, copings, string courses and the like linear metre</p> <p>(iv) chamber covers and frames, gully gratings and frames and the like number</p> <p>(v) brickwork, masonry and the like cubic metre</p>
Measurement	2	<p>The measurement for take up or down and dispose off site or set aside for re-use blockwork, stonework, paved areas and the like, kerbs, channels, edgings, combined drainage and kerb blocks, fencing, safety fences and the like, Pedestrian guardrail, copings, string courses and the like, traffic signs, reflecting road studs, gates, stiles, street furniture and the like; posts, brackets, signal indicators, shelves, racking, frames, chamber covers and frames, gully gratings and frames and the like; brickwork, masonry and the like shall be the volumes, areas, lengths or numbers ordered by the <i>Service Manager</i>.</p>
	3	<p>If disposed materials are measured as set aside for reuse and then are subsequently required to be removed to a depot or location by the <i>Service Manager</i>, the transport and resources required for movement shall be measured as Series 8000 Time Charge.</p>
	4	<p>For items of repair or replacement, the removal shall be measured as Site Clearance and the provision of the new replacement elements shall be measured in the relevant series.</p>
	5	<p>Where the foundations for signage, lighting columns, and the like, exceed 0.25m³ and are required to be removed, this shall be measured in the series 600.</p>
Itemisation	6	<p>Separate items shall be provided for take up or down and dispose to off site or set aside for re-use in accordance with the General Principles and the following:</p>

Group	Feature	
1	1	Take up or down and dispose off site
	2	Take up or down and set aside for reuse
2	1	Fencing and gates
	2	Road restraint systems
	3	Ironwork
	4	Kerbs and channels
	5	Footways and paved areas
	6	Traffic signs, bollards, marker posts and studs
	7	Structures
3	1	Stated types and sizes
4	1	Stated lengths and areas

Take Up or Down and Dispose Off Site or Set Aside for Re-use

7 The items for take up or down and dispose off site or set aside for re-use shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) excavation of acceptable material;
- (b) excavation of unacceptable material;
- (c) excavation in hard material;
- (d) breaking up foundations;
- (e) de-tensioning, dismantling and extracting posts;
- (f) cleaning, stacking, protecting and labelling;
- (g) transport and handling;
- (h) sand and warning tape to cables where one or more are to remain in a shared trench;
- (i) backfilling and compaction;
- (j) making good to severed ends of existing walls, hedges and fencing;

- (k) disposal of material;
- (l) reinstatement and making good;
- (m) storage facilities;
- (n) replacing items damaged during the foregoing operations;
- (o) multiple handling of materials.

SERIES 300: FENCING

Temporary Fencing

- Units 1 The unit of measurement shall be:
- (i) erect and remove temporary fencing linear metre
- (ii) maintain temporary fencing linear metre per day

- Itemisation 2 Separate items shall be provided for temporary fencing in accordance with General Principles and the following:

Group	Feature	
1	1	Erect and remove temporary fencing
	2	Maintain temporary fencing
2	1	Stated types
3	1	Stated lengths

- Temporary Fencing** 3 The items for temporary fencing shall in accordance with the Preambles to the Price List General Directions include for:
- Item coverage (a) earthworks, foundations and erection;
- (b) maintenance and inspections;
- (c) concrete, formwork and reinforcement;
- (d) posts, straining posts and struts;
- (e) cutting in filling to shape and bends;
- (f) protective systems;
- (g) removal and reinstatement on completion.

Permanent Fencing

- Units 4 The unit of measurement shall be:
- (i) permanent fencing metre
 - (ii) extra over for concrete footings number
 - (iii) extra over for end or corner posts on chain link fencing number
 - (iv) gates number

Itemisation 5 Separate items shall be provided for permanent fencing in accordance with General Principles and the following:

Group	Feature
1	1 Permanent fencing
	2 Gates
2	1 Stated types
3	1 Stated lengths
4	1 Extra over for concrete footings
5	1 Extra over for end or corner posts on chain link fencing

Permanent Fencing 6 The items for permanent fencing shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) excavation and disposal;
 - (b) backfilling, compaction and trimming;
 - (c) protective systems;
 - (d) fixings and fittings;
 - (e) joining to existing fencing, gates, hedges and walls;
 - (f) inspection and maintenance;
 - (g) gates;
 - (h) maintenance during erection;
 - (i) reinstatement.

Extra Over for Concrete Footings 7 The items for extra over for concrete footings shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) additional excavation and disposal;
 - (b) concrete materials, formwork and reinforcement.

Extra Over for End or Corner Posts on Chain Link Fencing 8 The items for extra over for end or corner posts on chain link fencing shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) additional materials and resources.

Excavation in Hard Material

Units 9 The unit of measurement shall be:

- (i) extra over for excavation in hard material in fencing works cubic metre

Group	Feature
1	1 Extra over for excavation in hard material in fencing works

Extra Over for Excavation in Hard Material in Fencing Works 10 The items for extra over for excavation in hard material in fencing works shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) excavation in hard material;
 - (b) any additional disposal.

SERIES 400: VEHICLE AND PEDESTRIAN RESTRAINTS

Temporary Safety Barrier

- Units 1 The unit of measurement shall be:
- (i) erect and remove temporary vehicle barrier linear metre
- (ii) maintain temporary vehicle barrier linear metre per day
- Measurement 2 The measurement of temporary safety barrier shall be the developed length along the centre line including over connections, transitions and terminals.
- Itemisation 3 Separate items shall be provided for temporary safety barrier in accordance with General Principles and the following:

Group	Feature	
1	1	Erect and remove temporary vehicle barrier
	2	Maintain temporary vehicle barrier
2	1	Stated types
3	1	Stated lengths

- Temporary Safety Barrier** 4 The items for temporary safety barrier shall in accordance with the Preambles to the Price List General Directions include for:
- Item coverage (a) earthworks, foundations and erection;
- (b) maintenance and inspections;
- (c) concrete, formwork and reinforcement;
- (d) posts, straining posts and struts;
- (e) fitting to shape and bends;
- (f) protective systems;
- (g) removal and reinstatement on completion.

Permanent Safety Barrier

- Units 5 The unit of measurement shall be:
- (i) permanent safety barrier linear metre
 - (ii) driven, surface mounted, concreted or socketed posts number
 - (iii) extra over for continuous lengths linear metre

Measurement 6 The measurement of permanent safety barrier shall be the developed length along the centre line including over connections, transitions and terminals.

Itemisation 7 Separate items shall be provided for permanent safety barrier in accordance with General Principles and the following:

Group	Feature	
1	1	Permanent safety barrier
2	1	End performance
	2	Specified systems
3	1	Exceeding 50 metres radius
	2	Not exceeding 50 metres radius
4	1	Extra over beams for stated continuous lengths

Permanent Safety Barrier 8 The items for permanent safety barrier shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) certificates and approvals;
 - (b) excavation and disposal, backfilling, compaction and trimming;
 - (c) protective systems;
 - (d) fixings and fittings;
 - (e) fabrication and installation;
 - (f) inspection and testing;
 - (g) concrete, formwork and sockets;

- (h) complying with manufacturers recommendations and code of practices;
- (i) site drilling, grouting, packing and reinstatement.

Transitions, Terminals and Connections

- Units 9 The unit of measurement shall be:
- (i) transition, terminal or connection number
- Measurement 10 The measurement of a transition, terminal or connection shall be extra over to the measurement of a permanent safety barrier.
- Itemisation 11 Separate items shall be provided for transition, terminal or connection in accordance with General Principles and the following:

Group	Feature	
1	1	Transition, terminal or connection
2	1	Stated types or designs

- Transitions, Terminals and Connections**
- Item coverage 12 The items for transitions, terminals or connections shall in accordance with the Preambles to the Price List General Directions include for:
- (a) design, certificates and approvals;
 - (b) excavation and disposal, backfilling, compaction and trimming;
 - (c) protective systems;
 - (d) fixings and fittings;
 - (e) fabrication and installation;
 - (f) inspection and testing.

Retensioning

- Units 13 The unit of measurement shall be:
- (i) retensioning linear metre

- (ii) extra over for stated post spacing linear metre
- Itemisation 14 Separate items shall be provided for retensioning in accordance with General Principles and the following:

Group	Feature
1	1 Retensioning
2	1 Stated types or designs
3	1 Stated lengths
4	1 Extra over for stated post spacing

- Retensioning** 15 The items for retensioning shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) certificates and approvals;
 - (b) tensioning to correct torque readings;
 - (c) protective systems;
 - (d) fixings and fittings;
 - (e) maintaining records;
 - (f) inspection and testing.

Ancillary Items in connection with Permanent Safety Barrier

- Units 16 The unit of measurement shall be:
- (i) push over tests number
 - (ii) additional concrete foundations cubic metre
 - (iii) coring existing bituminous road surface number
 - (iii) extra over for post extension unit number
 - (iv) bike guard linear metre

- Itemisation 17 Separate items shall be provided for ancillary items in connection with permanent safety barrier in accordance with General Principles and the following:

Group	Feature
1	1 Testing
	2 Additional concrete
	3 Coring existing bituminous road surface
	4 Extra over for post extension unit
	5 Bike guard
2	1 Stated types or designs

Ancillary Items in connection with Permanent Safety Barrier

Item coverage

- 18 The items for ancillary items in connection with permanent safety barrier shall in accordance with the Preambles to the Price List General Directions include for:
- (a) design, certificates and approvals;
 - (b) excavation and disposal, backfilling, compaction and trimming;
 - (c) protective systems;
 - (d) fixings and fittings;
 - (e) fabrication and installation;
 - (f) inspection and testing;
 - (g) concrete, formwork and sockets;
 - (h) complying with manufacturers recommendations and code of practices;
 - (i) site drilling, grouting, packing and reinstatement.

Parapets

Units

- 19 The unit of measurement shall be:
- (i) establishment and removal of equipment number
 - (ii) parapets linear metre
 - (iii) end or terminal number

Itemisation 20 Separate items shall be provided for parapets in accordance with General Principles and the following:

Group	Feature	
1	1	Establishment and removal of equipment
	2	Parapets
	3	End or terminal
2	1	Stated types or designs
3	1	Stated lengths

Group 3 Feature 1 shall only apply to Group 1 Feature 2.

Establishment and Removal of Equipment 21 The items for establishment and removal of equipment shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) providing all measures, equipment and resources required to undertake the works;
 - (b) removal and reinstatement on completion;
 - (c) notices and communications.

Parapets 22 The items for parapets shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) certificates and approvals;
 - (b) excavation and disposal, backfilling, compaction and trimming;
 - (c) protective systems;
 - (d) fixings, fittings and cages;
 - (e) fabrication, installation and templates;
 - (f) inspection and testing;
 - (g) concrete, formwork, reinstatement and finishing;
 - (h) trail erection at place of manufacture;
 - (i) packing and grouting.

End or Terminal 23 The items for end or terminal shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) certificates and approvals;
 - (b) excavation and disposal, backfilling, compaction and trimming;
 - (c) protective systems;
 - (d) fixings, fittings and cages;
 - (e) fabrication, installation and templates;
 - (f) inspection and testing;
 - (g) concrete, formwork, reinstatement and finishing;
 - (h) trail erection at place of manufacture;
 - (i) packing and grouting.

Pedestrian Restraint

Units 24 The unit of measurement shall be:

- (i) pedestrian restraint linear metre

Itemisation 25 Separate items shall be provided for pedestrian restraint in accordance with General Principles and the following:

Group	Feature	
1	1	Pedestrian restraint
2	1	Stated types or designs
3	1	Stated lengths

Pedestrian Restraint 26 The items for pedestrian restraint shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) certificates and approvals;
 - (b) excavation and disposal, backfilling, compaction and trimming;
 - (c) protective systems;

- (d) fixings and fittings;
- (e) fabrication and installation;
- (f) inspection and testing;
- (g) concrete, formwork, reinstatement and finishing;
- (h) packing and grouting.

Excavation in Hard Material

- Units 27 The unit of measurement shall be:
- (i) extra over for excavation in hard material in vehicle and pedestrian restraints cubic metre
- Itemisation 28 Separate items shall be provided for extra over for excavation in hard material in vehicle and pedestrian restraints in accordance with General Principles and the following:

Group	Feature
1	1 Extra over for excavation in hard material in vehicle and pedestrian restraints

- Extra Over for Excavation in Hard Material in Vehicle and Pedestrian Restraints** 29 The items for extra over for excavation in hard material in vehicle and pedestrian restraints shall in accordance with the Preambles to the Price List General Directions include for:
- Item coverage (a) excavation in hard material;
- (b) any additional disposal.

SERIES 500: DRAINAGE AND SERVICE DUCTS

Definition	1	<p>The Earthworks Outline as defined in Series 600 Earthworks shall apply to this Series.</p> <p>Sub-soil level in this Series is defined as the level of the ground after the removal of topsoil.</p> <p>Drains</p>
Units	2	<p>The unit of measurement shall be:</p> <p>(i) drains linear metre</p>
Measurement	3	<p>The measurement of drains shall be the summation of individual lengths ordered by the <i>Service Manager</i> along the centre lines of the pipes between any of the following:</p> <p>(a) the internal faces of chambers;</p> <p>(b) the external faces of headwalls;</p> <p>(c) the intersection of the centre lines at pipe junctions;</p> <p>(d) the centre of gully gratings or centre of the gully.</p>
	4	<p>The depth of drains shall be the vertical measurement between the invert and the existing ground level except that;</p> <p>(a) where the Earthworks Outline is below the existing ground level the measurement shall be taken to the Earthworks Outline;</p> <p>(b) where the Earthworks Outline is above the existing ground level the measurement shall be taken to the Earthworks Outline;</p> <p>(c) notwithstanding the foregoing, where in the Contract a commencing level or a minimum level of cover is stated from which excavation shall commence, then the depth shall be taken to that stated level.</p>

Itemisation 5 Separate items shall be provided for drains in accordance with General Principles and the following:

Group	Feature
1	1 Drains
2	1 Stated internal diameters
3	1 Stated materials
4	1 Average depth to invert not exceeding 1.0 metres
	2 Average depth to invert exceeding 1.0 metres but not exceeding 1.5 metres and so on in steps of 0.5 metres
5	1 Stated aggregated lengths

Note: For each item of drains an associated adjustment item shall be provided for each 25mm of difference of variation in excess of the average stated depth. The foregoing shall apply only to increases of the average stated depth.

Drains 6 The items for drains shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) excavation of acceptable material;
 - (b) excavation of unacceptable material;
 - (c) articulated pipes and fittings;
 - (d) cutting, laying, jointing and bedding;
 - (e) earthwork support;
 - (f) temporary supports;
 - (g) bedding, haunching and surround;
 - (h) formwork;
 - (i) backfilling and compaction with selected excavated material;

- (j) disposal of excess material;
- (k) movement joints to beds, surrounds and the like;
- (l) reinstatement of unpaved areas;
- (m) checking and cleaning;
- (n) maintaining existing flows;
- (o) in the case of ducts, fixing draw ropes, removable stoppers, marker blocks and posts;
- (p) as built records;
- (q) lubricants, packing, grouting and caulking.

Extra Over Drains

- Units 7 The unit of measurement shall be:
- (i) extra over drains for stated bed types linear metre
 - (ii) extra over drains for stated pipes linear metre

- Itemisation 8 Separate items shall be provided for extra over drains in accordance with General Principles and the following:

Group	Feature	
1	1	Extra over drains for Stated bed types
	2	Extra over drains for stated pipes
2	1	Stated depths

Group 2 Feature 1 shall only be stated for Group 1 Feature 1.

- Extra Over Drains** 9 The items for extra over drains shall in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) stated materials;
 - (b) additional excavation in unacceptable or acceptable materials;
 - (c) additional disposal of excess materials;

(d) formwork and supports.

Filter Drains

- Units 10 The unit of measurement shall be:
 - (i) filter drains linear metre
- Measurement 11 The measurement of filter drains shall be the summation of individual lengths ordered by the *Service Manager* along the centre lines of the pipes.
- 12 The depth of filter drains shall be the vertical measurement between the invert and the existing ground level except that where the Earthworks Outline is below the existing ground level where the measurement shall be taken to the Earthworks Outline.
- 13 Notwithstanding the foregoing, where in the Contract a commencing level or a minimum level of cover is stated from which excavation shall commence, then the depth shall be taken to that stated level.
- Itemisation 14 Separate items shall be provided for drains in accordance with General Principles and the following:

Group	Feature	
1	1	Filter drains
2	1	Stated internal diameters
3	1	Stated materials
4	1	Average depth to invert not exceeding 1.0 metres
	2	Average depth to invert exceeding 1.0 metres but not exceeding 1.5 metres and so on in steps of 0.5 metres

Note: For each item of drains an associated adjustment item shall be provided for each 25mm of difference of variation in excess of the average stated depth. The foregoing shall apply only to increases of the average stated depth.

Filter Drains	15	The items for drains shall in accordance with the Preambles to the Price List General Directions include for:
Item coverage		<ul style="list-style-type: none"> (a) excavation of acceptable material; (b) excavation of unacceptable material; (c) articulated pipes and fittings; (d) cutting, laying, jointing and bedding; (e) earthwork support; (f) temporary supports; (g) bedding, haunching and surround; (h) formwork; (i) backfilling and compaction; (j) disposal of excess material; (k) movement joints to beds, surrounds and the like; (l) reinstatement of unpaved areas; (m) checking and cleaning; (n) maintaining existing flows; (o) in the case of ducts, fixing draw ropes, removable stoppers, marker blocks and posts; (p) as built records.

Excavate and Replace Filter Material

Units	16	The units of the measurement shall be: <ul style="list-style-type: none"> (i) excavate and replace filter material cubic metre
Measurement	17	The measurement of excavate and replace filter material shall be the volume of the void directed to be excavated or filled by the <i>Service Manager</i> .
Itemisation	18	Separate items shall be provided for excavate and replace filter material in accordance with the General Principles and the following:

Group	Feature
1	1 Excavate and replace filter material
2	1 Stated aggregated quantities

Excavate and Replace Filter Material

19 The items for excavate and replace filter material shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) excavation of acceptable material;
- (b) excavation of unacceptable material;
- (c) disposal of material;
- (d) deposition of fill;
- (e) compaction of fill.

Connections

Units

20 The units of measurement shall be:

- (i) connections number

Measurement

21 Connections shall only be separately measured for connection to existing drains, piped culverts or chambers.

Itemisation

22 Separate items shall be provided for connection to existing drain, piped culvert or chamber in accordance with General Principles and the following:

Group	Feature
1	1 Connection to existing drain, piped culvert
	2 Connection to existing chamber
2	1 Saddle connection
	2 Junction connection
3	1 Stated diameters
4	1 At any depth

Connections to Existing Drains, Piped Culverts, Chambers.	23	The items for connection to existing drains, piped culverts, chambers, shall in accordance with the Preambles to Price List General Directions include for:
Item coverage		<ul style="list-style-type: none"> (a) excavation of acceptable material; (b) excavation of unacceptable material; (c) locating and making entry; (d) backfilling and compaction; (e) disposal of material; (f) making entry into chambers, concrete benching and channels, and making good the benching, channels and walls; (g) locating severed ends of land and mole drains; (h) pipes, fittings and saddles; (i) bedding, haunching and surrounding, and filter material; (j) formwork; (k) sealing off disused ends; (l) re-laying existing pipes disturbed; (m) building in pipes; (n) maintaining existing flows.

Chambers, Drawpits and Gullies

Units	24	The units of measurement shall be: <ul style="list-style-type: none"> (i) chambers, drawpits and gullies number
Measurement	25	The measurement shall be the complete chamber, drawpit or gully ordered by the <i>Service Manager</i> .
	26	Depths of chambers or drawpit shall be the distance between the top surface of the cover and the invert of the main channel, or where no channel is required by the Contract the uppermost surface of the base slab. Where no base slab is

required the depth shall be taken to the bottom of the excavation.

Group	Feature	
1	1	Chambers or drawpit
	2	Gullies
2	1	Specified design groups or stated types
3	1	Depth to invert not exceeding 1.2 metre
	2	Depth to invert exceeding 1.2 metre but not exceeding 2.0 metres
4	1	Stated covers or gratings

Chambers or Drawpits

27

The items for chambers or drawpits shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) excavation of acceptable material;
- (b) excavation of unacceptable material;
- (c) earthwork support;
- (d) construction of bases, walls, roof and cover slabs and shafts, surrounds and corbelling for cover;
- (e) channels, fittings, benching, building in pipes and fin drain connections;
- (f) cleaning;
- (g) steps, safety chains, ladders, handholds and the like;
- (h) covers, frames, seatings and bedding;
- (i) cover keys;
- (j) concrete;
- (k) formwork;
- (l) reinforcement;
- (m) backfilling and compaction;

- (n) disposal of material;
- (o) filling;
- (p) notices;
- (q) sealants;
- (r) brickwork;
- (s) mortar.

Gullies	28	The items for gullies shall in accordance with the Preambles to Price List General Directions include for:
Item coverage		<ul style="list-style-type: none"> (a) excavation of acceptable material; (b) excavation of unacceptable material; (c) fittings including in situ concrete bed and surround and jointing to pipes; (d) gratings, frames, slabs, surrounds, aprons, seatings, liners and bedding; (e) formwork; (f) cleaning; (g) backfilling and compaction; (h) disposal of material; (i) brickwork; (j) mortar.

Service Ducts

Units	29	The unit of measurement shall be: <ul style="list-style-type: none"> (i) service ducts linear metre
Measurement	30	The measurement of service ducts shall be the summation of individual lengths ordered by the <i>Service Manager</i> along the centre lines of the pipes between the internal faces of chambers.
	31	The depth of service ducts shall be the vertical measurement between the invert and the existing ground level except that where the Earthworks Outline is below the existing ground

level where the measurement shall be taken to the Earthworks Outline.

32 Notwithstanding the foregoing, where in the Contract a commencing level or a minimum level of cover is stated from which excavation shall commence, then the depth shall be taken to that stated level.

Itemisation

33 Separate items shall be provided for service ducts in accordance with General Principles and the following:

Group	Feature
1	1 Service ducts
2	1 In verge or footway
	2 In carriageway
3	1 Stated bed and surround
4	1 Average depth to invert not exceeding 0.5 metres
	2 Average depth to invert exceeding 0.5 metres but not exceeding 0.75 metres
5	1 Stated size ducts
	2 Number of ducts in trench

Service Ducts

34 The items for service ducts shall in accordance with the Preambles to the Price List General Directions include for:

Item coverage

- (a) excavation of acceptable material;
- (b) excavation of unacceptable material;
- (c) pipes and fittings;
- (d) cutting, laying, jointing and bedding;
- (e) earthwork support;
- (f) temporary supports;
- (g) bedding, haunching and surround;
- (h) formwork;
- (i) backfilling and compaction;

- (j) disposal of excess material;
- (k) movement joints to beds, surrounds and the like;
- (l) reinstatement of unpaved areas;
- (m) checking and cleaning;
- (n) maintaining existing flows;
- (o) fixing draw ropes, removable stoppers, marker blocks and posts;
- (p) as built records;
- (q) lubricants, packing, grouting and caulking.

Concrete Bagwork

- Units 35 The unit of measurement shall be:
- (i) concrete bagwork walls square metre
 - (ii) concrete bagwork in headwall number
- Measurement 36 Measurement for concrete bagwork shall be the quantity ordered by the *Service Manager*.
- Itemisation 37 Separate items shall be provided for concrete bagwork in accordance with the General Principles and the following:

Group	Feature
1	1 Concrete bagwork in walls
	2 Concrete bagwork in headwall

- Concrete Bagwork** 38 The items for concrete bagwork shall in accordance with the Preambles to Price List General Direction include for:
- Item coverage (a) excavation and disposal;
- (b) deposition, filling and compaction;
- (c) filling bags with concrete and making good;
- (d) shaping, building in pipes and tying into existing work;

- (e) in situ concrete, formwork, reinforcement and dowels;
- (f) geotextiles.

Soft Spots and Voids

- Units 39 The units of measurement shall be:
 - (i) excavation of soft spots and other voids, filling of soft spots and other voids cubic metre
- Measurement 40 The measurement of excavation or filling of soft spots and other voids shall be the volume of the void to be excavated or filled as ordered by the *Service Manager*.
- Itemisation 41 Separate items shall be provided for excavation and filling of soft spots and other voids in accordance with the General Principles and the following:

Group	Feature	
1	1	Excavation of soft spots and other voids
	2	Filling of soft spots and other voids
2	1	In trenches chambers and gullies
3	1	Stated materials

- Excavation of Soft Spots and Other Voids** 42 The items for excavation of soft spots and other voids shall in accordance with the Preambles to Price List General Directions include for:
 - Item coverage (a) excavation of acceptable material;
 - (b) excavation of unacceptable material;
 - (c) disposal of material.
- Filling of Soft Spots and Other Voids** 43 The items for filling of soft spots and other voids shall in accordance with the Preambles to Price List General Directions include for:
 - Item coverage (a) deposition of fill;
 - (b) compaction of fill;

- (c) in situ concrete or granular materials.

Refix or adjust ironwork

- Units 44 The unit of measurement shall be:
(i) refix or adjust ironwork number
- Measurement 45 Measurement note; additional items shall be measured for covers or gratings set within epoxy mortar.
- 46 Measurement note; additional items shall be measured for the provision of new covers.
- Itemisation 47 Separate items shall be provided for refix or adjust ironwork in accordance with the General Principles and the following:

Group	Feature
1	1 Refix or adjust ironwork
2	1 In footway or verge
	2 In carriageway
3	1 Stated sizes of cover or grating
4	1 Not exceeding 75mm
	2 Exceeding 75mm but not exceeding 150mm and so on in steps of 75mm

- Refix or Adjust Ironwork** 48 The items for refix or adjust ironwork shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) excavation of acceptable material;
- (b) excavation of unacceptable material;
- (c) take up existing cover or grating including frame and clean and set aside for re-use;
- (d) excavation in hard material;
- (e) demolition and preparation to receive new construction;
- (f) construction of walls;

- (g) bedding existing cover or grating including frame;
- (h) concrete;
- (i) formwork;
- (j) backfilling and compaction;
- (k) disposal of material;
- (l) taking precautions to avoid damage to drains and sewers;
- (m) cleaning;
- (n) brickwork;
- (o) mortar.

Extra Over Refix or Adjust Cover for New

Units	49	The unit of measurement shall be: (i) extra over refix or adjust cover for new number
Measurement	50	The measurement of disposal of redundant covers shall be measured using the appropriate site clearance item.
	51	The measurement of additional items shall be measured for the reinstatement of paved areas using the appropriate pavement item.
Itemisation	52	Separate items shall be provided for extra over refix or adjust cover for new in accordance with the General Principles and the following:

Group	Feature
1	1 Extra over refix or adjust cover for new
2	1 Stated sizes of cover or grating

Extra Over Refix or Adjust Cover for New	53	The items for extra over refix or adjust cover for new shall in accordance with the Preambles to Price List General Directions include for:
Item coverage		(a) new covers.

Backfilling of Trenches

Units 54 The unit of measurement shall be:
(i) backfilling of trenches in lieu of selected excavated material cubic metre

Measurement 55 Measurement for backfilling of trenches in lieu of selected excavated material shall be the quantity ordered by the *Service Manager*.

Itemisation 56 Separate items shall be provided for backfilling of trenches in lieu of selected excavated material in accordance with the General Principles and the following:

Group	Feature
1	1 Backfilling of trenches in lieu of selected excavated material
2	1 Stated materials

Backfilling of Trenches in lieu of Selected Excavated Material 57 The items for backfilling of trenches in lieu of selected excavated material shall in accordance with the Preambles to Price List General Direction include for:

- Item coverage
- (a) the additional cost of importing materials in lieu of selected excavated material;
 - (b) protection of material in transit and while awaiting tipping;
 - (c) grading, measuring, mixing and depositing materials;
 - (e) additional handling and loading of materials, spreading and compaction;
 - (f) disposal of excavated material.

Backfilling of Disused Chambers, Gully Pots and the like

Units 58 The unit of measurement shall be:
(i) backfilling of disused chambers, gully pots and the like cubic metre

Measurement	59	Measurement for backfilling of disused chambers, gully pots and the like in lieu of selected excavated material shall be the quantity ordered by the <i>Service Manager</i> .
Itemisation	60	Separate items shall be provided for backfilling of disused chambers, gully pots and the like in accordance with the General Principles and the following:

Group	Feature
1	1 Backfilling of disused chambers, gully pots and the like
2	1 Stated materials

Backfilling of Disused Chambers, Gully Pots and the like	61	The items for backfilling of disused chambers, gully pots and the like shall in accordance with the Preambles to Price List General Direction include for:
---	----	--

- | | | |
|---------------|-----|--|
| Item coverage | (a) | the additional cost of importing materials in lieu of selected excavated material; |
| | (b) | protection of material in transit and while awaiting tipping; |
| | (c) | grading, measuring, mixing and depositing materials; |
| | (d) | curing and protection; |
| | (e) | additional handling and loading of materials, spreading and compaction; |
| | (f) | Disposal of excavated material. |

Excavation in Hard Material

Units	62	The unit of measurement shall be:
	(i)	extra over excavation for excavation in hard material in drainage cubic metre

Measurement	63	The measurement shall be the volume of the voids formed by the removal of the hard material ordered by the <i>Service Manager</i> .
-------------	----	---

Itemisation 64 Separate items shall be provided for extra over excavation for excavation in hard material in drainage in accordance with the General Principles and the following:

Group	Feature	
1	1	Extra over excavation for excavation in hard material in drainage
2	1	Stated specification of hard material

Item coverage 65 The items for extra over excavation for excavation in hard material in drainage shall in accordance with the Preambles to Price List General Directions include for:

- (a) excavation in hard material.

SERIES 600: EARTHWORKS

- Definitions**
- 1 The Earthworks Outline, unless expressly stated otherwise, is defined as the finished earthworks levels and dimensions (prior to topsoiling) required by the Contract for the construction, where specified, of:
 - (a) carriageway, hard shoulder, hard strip, footway, paved area, central reserve, verge, side slope;
 - (b) sub-base;
 - (c) landscape areas, environmental bunds.
 - 2 Sub-soil Level is defined as the level of the ground after the removal of topsoil.
- Measurement General**
- 3 For the purposes of this Series it shall be assumed that one cubic metre of material excavated forms one cubic metre of compacted fill. No allowance shall be made in the measurement for bulking and shrinkage of any material.

Excavation

- Units**
- 4 The unit of measurement shall be:
 - (i) excavation cubic metre
- Itemisation**
- 5 Separate items shall be provided for excavation in accordance with General Principles and the following:

Group	Feature	
1	1	Excavation
2	1	Topsoil (Acceptable material Class 5A)
	2	Acceptable or unacceptable material other than Class 5A
3	1	In general excavation
	2	In structural foundations
	3	In watercourses
4	1	Stated aggregated volumes

Excavation	6	The items for excavation shall in accordance with the Preambles to the Price List General Directions include for:
Item coverage	(a)	selection and separation of materials;
	(b)	loading into transport;
	(c)	multiple handling of material;
	(d)	keeping earthworks free of water;
	(e)	haulage and deposition in temporary stockpiles including the provision of sites for stockpiles;
	(f)	taking precautions to avoid damage to property, structures, drains, sewers, services, instrumentation and the like;
	(g)	grading beds and trimming side slopes of watercourses and the like;
	(h)	replacing acceptable material rendered unacceptable;
	(i)	loosening or breaking up material before or in the process of excavation;
	(j)	upholding the sides;
	(k)	overbreak and making good;
	(l)	trimming the bottom and sides of foundations;
	(m)	protection of subgrade;
	(n)	additional excavation the <i>Contractor</i> may require for working space, timbering, formwork or other temporary works and its subsequent backfilling with approved materials and compaction;
	(o)	taking precautions to avoid damage to property, structures, drains, sewers, services, instrumentation and the like;
	(p)	disposal of surcharge material.

Extra Over for Excavation in Hard Material

Units 7 The unit of measurement shall be:

(i) extra over for excavation in hard material
cubic metre

Itemisation 8 Separate items shall be provided for extra over for excavation in hard material in accordance with General Principles and the following:

Group	Feature	
1	1	Extra over for excavation in hard material
2	1	Stated materials
3	1	Stated aggregated volumes

Extra Over for Excavation in Hard Material 9 The items for extra over for excavation in hard material in accordance with the Preambles to the Price List General Directions include for:

- Item coverage
- (a) site trials for removal;
 - (b) splitting, breaking and the like;
 - (c) cutting through reinforcement;
 - (d) saw cutting and trimming;
 - (e) removal of existing paved areas by course or layer, cleaning surfaces, planing, stepping out and treatment to bottoms of foundations.

Disposal of Material

Units 10 The unit of measurement shall be:

(i) disposal of material cubic metre

Measurement 11 The measurement of disposal of acceptable material shall be the net volume of excavated material.

Itemisation 12 Separate items shall be provided for disposal of material in accordance with the General Principles and the following:

Group	Feature	
1	1	Disposal
2	1	Topsoil (Class 5A)
	2	Unacceptable non-hazardous uncontaminated material - clean
	3	Unacceptable non-hazardous uncontaminated material - rough
	4	Unacceptable contaminated non-hazardous material Class U1B
3	1	Stated aggregated volumes

Note: Clean – soil, granular or clay based.
Rough – soil mixed with vegetation, concrete, brick or clayware

Disposal of Material

Item coverage

- 13 The items for disposal of material shall in accordance with the Preambles to Price List General Directions include for:
- (a) haulage and deposition in tips off Site provided by the Contractor;
 - (b) special measures for dealing with Classes U1B material;
 - (c) multiple handling of material;
 - (d) additional processing on or off site;
 - (e) landfill tax.

Imported Fill

Units

- 14 The unit of measurement shall be:
- (i) imported fill cubic metre

Measurement

- 15 The measurement of imported acceptable fill shall be the net volume of compacted fill;
- (a) acceptable material, excluding topsoil Class 5A and acceptable material of a particular Class being both surplus to the requirements of the Contract for that class of material and which does not meet the requirements for acceptability for use elsewhere within

the measured volume of compacted fill, excavated from within the Site and measured in this Series;

- (b) other stated classes of imported acceptable fill excluding topsoil Class 5B.

Itemisation 16 Separate items shall be provided for imported acceptable fill in accordance with the General Principles and the following:

Group	Feature	
1	1	Imported fill
2	1	Stated classes or types
	2	Extra over imported material for filling in structures

Imported Fill 17 The items for imported fill shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) protection of subgrade;
- (b) multiple handling of material;
- (c) keeping earthworks free of water;
- (d) complying with requirements and constraints on the sequence, timing and rate of deposition and filling, and equalisation of earth pressures;
- (e) complying with the special requirements for Class 3 material and other materials requiring special treatments;
- (f) complying with the particular requirements and constraints with regard to soil stabilisation, reinforced earth structures, strengthened embankments, anchored earth structures, corrugated steel buried structures and the like;
- (g) taking precautions to avoid damage to property, structures, sewers, drains, services, instrumentation and the like;
- (h) fill provided by the *Contractor* from sources outside the Site;
- (i) replacing acceptable material rendered unacceptable;

- (j) selection of material of stated Classes and layering or depositing in locations stated in the Contract;
- (k) depositing fill to slope away from vertical drainage layers and measures to prevent surface water entering such layers;
- (l) trimming and shaping to levels and contours;
- (m) compaction of fill and settlement from compaction of fill;
- (n) special measures for dealing with processed material.

Geotextiles

- | | | |
|-------------|----|--|
| Units | 18 | The unit of measurement shall be: <ul style="list-style-type: none"> (i) geotextile square metre |
| Measurement | 19 | The measurement of geotextile shall be the developed area of the geotextile ordered by the <i>Service Manager</i> . |
| Itemisation | 20 | Separate items shall be provided for geotextile in accordance with the General Principles and the following: |

Group	Feature
1	1 Geotextile
2	1 Stated types

- | | | |
|-------------------|----|--|
| Geotextile | 21 | The items for geotextile shall in accordance with the Preambles to Price List General Directions include for: |
| Item coverage | | <ul style="list-style-type: none"> (a) cleaning, trimming, regulating and preparing surfaces; (b) laps; (c) measures to protect material; (d) cutting, jointing, sealing and fixing; (e) securing material in place; (f) complying with the requirements of strengthened earthworks. |

Soft Spots

- Units 22 The unit of measurement shall be:
(i) soft spots cubic metre
- Measurement 23 The measurement of soft spots shall be the volume of the voids ordered by the *Service Manager*.
- Itemisation 24 Separate items shall be provided for soft spots in accordance with the General Principles and the following:

Group	Feature	
1	1	Excavation of soft spots
	2	Filling of soft spots
2	1	Stated types of fill

- Excavation of Soft Spots** 25 The items for excavation of soft spots shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage (a) excavation of acceptable material;
(b) excavation of unacceptable material;
(c) disposal of material;
(d) trimming back cutting faces.

- Filling of Soft Spots** 26 The items for filling of soft spots shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage (a) deposition of fill;
(b) compaction of fill;
(c) formwork;
(d) treatment of cutting faces;
(e) in situ concrete.

Topsoiling

- Units 27 The unit of measurement shall be:
- (i) supply only topsoil cubic metre
 - (ii) topsoiling to a specified thickness square metre
 - (iii) topsoiling in excess of 150mm thick cubic metre
- Measurement 28 The measurement of topsoiling shall be the area of the surface to be topsoiled or volumes ordered by the *Service Manager*.
- Itemisation 29 Separate items shall be provided for topsoiling in accordance with the General Principles and the following:

Group	Feature	
1	1	Supply only topsoil
	2	Topsoiling of stated thicknesses
	3	Topsoiling in excess of 150mm.
2	1	Stated aggregated areas

- Supply only Topsoil** 30 The items for supply only topsoil shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) the removal of debris;
- (b) imported topsoil.
- Topsoiling** 31 The items for topsoiling shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) excavation from stockpile;
- (b) loading into transport;
- (c) haulage, deposition, spreading, levelling and compaction;
- (d) trimming and shaping to levels and contours;
- (e) harrowing;
- (f) herbicide treatment;

- (g) supply of topsoil.

Completion of Formation and Sub-formation

- Units 32 The unit of measurement shall be:
 - (i) completion of formation, sub-formation square metre
- Measurement 33 The measurement of completion of formation and sub-formation shall be the areas ordered by the *Service Manager*.
- Itemisation 34 Separate items shall be provided for completion of formation and sub-formation in accordance with the General Principles and the following:

Group	Feature	
1	1	Completion of sub-formation
	2	Completion of formation
2	1	Stated aggregated areas

- Completion of Formation and Sub-formation** 35 The items for completion of formation and sub-formation shall in accordance with the Preambles to Price List General Directions include for:
 - (a) removal of protective layer, mud and slurry;
 - (b) compaction;
 - (c) cleaning, trimming, regulating, making good and rolling;
 - (d) cement bound materials;
 - (e) excavation, processing, compaction of naturally occurring hard material;
 - (f) measures to protect formation and sub-formation against deterioration or degradation.
- Item coverage

Ditches

- Units 36 The unit of measurement shall be:
- (i) ditches square metre
- Measurement 37 Measurement of ditches shall be the permanently exposed face area of the work ordered by the *Service Manager*.
- Itemisation 38 Separate items shall be provided for ditches in accordance with the General Principles and the following:

Group	Feature	
1	1	Ditches
2	1	Lining any watercourses
3	1	Stated thicknesses
4	1	To invert
	2	To side slopes

- Ditches** 39 The items for ditches shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage
- (a) preparation, bedding and compaction;
- (b) laying, setting, bedding, jointing, wedging, cutting and pointing;
- (c) building in pipes;
- (d) concrete;
- (e) formwork;
- (f) reinforcement;
- (g) bags, filling, staking and securing;
- (h) laying to levels and falls;
- (i) bedding, jointing and pointing.

Gabion Walling and Mattresses

- Units 40 The unit of measurement shall be:
- (i) gabion walling and mattresses number
- Measurement 41 The measurement of gabion walling and mattresses shall be the number of cages ordered by the *Service Manager*.
- Itemisation 42 Separate items shall be provided for gabion walling and mattresses in accordance with the General Principles and the following:

Group	Feature
1	1 Gabion walling
2	1 Stated mesh size and filling materials
3	1 Stated cage sizes

- Gabion Walling** 43 The items for gabion walling shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) assembling, tying, fixing, staking and tensioning;
- (b) fill, compaction and finishes;
- (c) mesh including cutting and folding to form special units and shapes;
- (d) bracing and wiring lids.

Trial Pits

- Units 44 The unit of measurement shall be:
- (i) trial pits cubic metre
- Measurement 45 The measurement of trial pits shall be the volumes ordered by the *Service Manager*.
- 46 The measurement of reinstatement of paved areas shall be measured separately.

Itemisation 47 Separate items shall be provided for trial pits in accordance with the General Principles and the following:

Group	Feature
1	1 Trial pits.
2	1 In verge
	2 In footway
	3 In carriageway
3	1 Not exceeding 1.00m deep
	2 Exceeding 1.00m deep

Trial Pits 48 The items for trial pits shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage
- (a) excavation of acceptable material;
 - (b) excavation of unacceptable material;
 - (c) excavation in hard material;
 - (d) locating, working around and supporting pipes, cables, services, apparatus and the like;
 - (e) attendance on the *Service Manager* and others for inspection and investigation purposes;
 - (f) disposal of material;
 - (g) backfilling and compaction;
 - (h) reinstatement of non-paved surfaces only.

Breaking Up and Perforation of Redundant Pavements

Units 49 The unit of measurement shall be:

- (i) breaking up of redundant pavements, perforation of redundant pavements square metre

Itemisation 50 Separate items shall be provided for breaking up and perforation of redundant pavements in accordance with the General Principles and the following:

Group	Feature	
1	1	Breaking up and perforation of redundant pavements
2	1	Flexible paved area
3	1	Not exceeding 100mm deep
	2	Exceeding 100mm but not exceeding 200mm deep

Breaking Up and Perforation of Redundant Pavements

51 The items for breaking up and perforation of redundant pavements shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) excavation in hard material;
- (b) taking precautions to avoid damage to property, structures, drains, sewers, services, instrumentation and the like;
- (c) perforations.

SERIES 700: PAVEMENTS

Sub-base

- Units 1 The unit of measurement shall be:
 - (i) sub-base cubic metre
- Measurement 2 The measurement of sub-base shall be the volume of sub-base measured to the dimensions stated or quantities ordered by the *Service Manager*.
- Itemisation 3 Separate items shall be provided for sub-base in accordance with the General Principles and the following:

Group	Feature	
1	1	Each group or type of sub-base.
2	1	In carriageway
3	1	Not exceeding 10 cubic metres
	2	Exceeding 10 but not exceeding 50 cubic metres
	3	Exceeding 50 but not exceeding 100 cubic metres
	4	Exceeding 100 cubic metres

- Sub-base** 4 The items for sub-base shall in accordance with the Preambles to Price List General Directions include for:
 - (a) trial areas and trials;
 - (b) making good after sampling and testing;
 - (c) protection of material in transit and while awaiting tipping;
 - (d) grading, measuring, mixing and depositing materials;
 - (e) spreading and compaction;
 - (f) cleaning, preparing and working on or up to existing surfaces and features;
 - (g) curing and protection;
- Item coverage

- (h) edge support;
- (i) maintenance of surface;
- (j) taking measures to protect the subgrade, capping and sub-base from deterioration due to the ingress of water and the use of constructional plant;
- (k) taking measures to improve the subgrade, capping and sub-base from damage due to the *Contractor's* method of construction and choice of constructional plant;
- (l) shaping to cambers, falls and crowns;
- (m) provision of test certificates.

Pavement

- | | | |
|-------------|---|---|
| Units | 5 | The unit of measurement shall be: <ul style="list-style-type: none"> (i) base course, binder course and surface course square metre |
| Measurement | 6 | The measurement of the base course, binder course and surface course shall be calculated using the width of the top surface of the course. |
| | 7 | The width of the top surface of the course shall be the width required by dimensions or ordered by the <i>Service Manager</i> and shall exclude sloping sides or edges. |
| | 8 | No deductions shall be made for openings of 1 square metre or less. |
| Itemisation | 9 | Separate items shall be provided for base course, binder course and surface course in accordance with the General Principles and the following: |

Group	Feature	
1	1	Pavements
2	1	Base course
	2	Binder course
	3	Surface Course
	4	Coated chippings
	5	Thin surface course
3	1	Each group or type

4	1	Stated thicknesses
5	1	In contiguous areas exceeding 4,000 square metres

Note: Additional items shall be measured for additional stated thicknesses of pavement items.

**Base Course,
Binder Course
and Surface
Course**

Item coverage

- 10 The items for base course, binder and surface course shall in accordance with the Preambles to Price List General Directions include for:
- (a) trial areas and trials;
 - (b) making good after sampling and testing;
 - (c) protection of material in transit and while awaiting tipping;
 - (d) designing and verifying mixes;
 - (e) grading, measuring, reclaiming, mixing and depositing materials;
 - (f) spreading and compacting;
 - (g) cutting back, saw cutting, cleaning, preparing and working on or up to existing surfaces and features;
 - (h) edge support;
 - (i) waterproof and separation membranes;
 - (j) chippings;
 - (k) surface texturing;
 - (l) making joints;
 - (m) forming or sawing grooves, cleaning, grit blasting, priming, caulking, temporary and permanent sealing of joints;
 - (n) shaping to cambers, falls, crowns and covers;
 - (o) forming sockets, recesses, openings, and bays;
 - (p) curing and protection;

- (q) protection and masking and unmasking of kerbs, drainage, channels, chamber covers, gully gratings, expansion joints, and the like;
- (r) maintenance of surfacing;
- (s) taking measures to protect and maintain the pavement from deterioration by the use of constructional plant and the ingress of water and other materials;
- (t) measures required for aftercare and opening the road to traffic;
- (u) painting vertical surfaces with bitumen.

Regulating

- | | | |
|-------------|----|--|
| Units | 11 | The unit of measurement shall be:

(i) regulating tonne |
| Measurement | 12 | The tonnage certified by the <i>Service Manager</i> shall only be the material included on delivery tickets which are incorporated in the Permanent Works. Material in excess of those ordered by the <i>Service Manager</i> material used for any other purpose shall not be included within the certified tonnage. |
| Itemisation | 13 | Separate items shall be provided for regulating in accordance with the General Principles and the following: |

Group	Feature	
1	1	Each group or type of regulating
2	1	Base
	2	Binder
	3	Surface Course

- | | | |
|-------------------|----|--|
| Regulating | 14 | The items for regulating shall in accordance with the Preambles to Price List General Directions include for: |
| Item coverage | | (a) base course, binder course and surface course;

(b) supplying authorised copies of delivery tickets. |

Extra Over Asphalt Concrete Materials

- Units 15 The unit of measurement shall be:
- (i) extra over asphalt concrete materials square metre
- Measurement 16 The measurement of extra over asphalt concrete materials shall be the top surface area of the pavement ordered by the *Service Manager*.
- Itemisation 17 Separate items shall be provided for extra over asphalt concrete materials in accordance with the General Principles and the following:

Group	Feature
1	1 Extra over asphalt concrete materials
2	1 For contiguous areas
3	1 Exceeding 250 but not exceeding 1,000 square metres
	2 Exceeding 1,000 square metres but not exceeding 2,000 square metres
	3 Exceeding 2,000 square metres but not exceeding 4,000 square metres

- Extra Over Asphalt Concrete Materials** 18 The items for extra over asphalt concrete materials shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) additional costs and resources due to stated and designated quantities.

Asphalt Reinforcement

- Units 19 The unit of measurement shall be:
- (i) asphalt reinforcement square metre
- Measurement 20 The measurement of asphalt reinforcement shall be calculated using the top surface ordered by the *Service Manager*.
- 21 No deductions shall be made for opening of 1 square metre or less.

Itemisation 22 Separate items shall be provided for asphalt reinforcement in accordance with the General Principles and the following:

Group	Feature	
1	1	Asphalt reinforcement
2	1	Stated types
3	1	Not exceeding 1,000 square metres
	2	Exceeding 1,000 square metres

Asphalt Reinforcement 23 The items for asphalt reinforcement shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage
- (a) trial areas and trials;
 - (b) spreading and roiling deposited materials;
 - (c) bond or tack coat;
 - (d) measures required for aftercare and opening road to traffic;
 - (e) overlaps and bonding;
 - (f) surface preparation and treatment shall include bonding coat;
 - (g) shrinkage.

Bond or Tack Coat

Units 24 The unit of measurement shall be:

- (i) bond or tack coat square metre

Measurement 25 The measurement of bond or tack coat shall be the surface area to be coated as ordered by the *Service Manager*.

Itemisation 26 Separate items shall be provided for bond or tack coat in accordance with the General Principles and the following:

Group	Feature	
1	1	Bond or tack coat
2	1	Stated materials
3	1	Stated rates of spread

Bond or Tack Coat

Item coverage

- 27 The items for bond or tack coat shall in accordance with the Preambles to Price List General Directions include for:
- (a) trial area and trials;
 - (b) making good after sampling and testing;
 - (c) designing and verifying mixes;
 - (d) grading, measuring, mixing and depositing materials;
 - (e) making joints;
 - (f) cleaning surfaces;
 - (g) protection and masking and unmasking or kerbs, drainage, channels, chamber covers, gully gratings, expansion joints, road studs, road markings and the like and obtaining clean markings;
 - (h) cutting back, preparing and working on or up to adjacent faces, surfaces and features;
 - (i) admixtures and additives.

Joints

Units

- 28 The unit of measurement shall be:
- (i) cut back existing flexible pavement linear metre
 - (ii) saw cutting flexible pavement linear metre

Measurement

- 29 The measurement of joints shall be the length of work ordered by the *Service Manager*.
- 30 Cut back existing pavement shall be for work required to existing surfaces and include for saw cutting to form a vertical face. Saw cutting pavement shall only be measured as a separate item where specifically ordered by the *Service Manager*.

- 31 Cut back existing pavement shall not be used for temporary joints required in day to day operations as these are deemed to be temporary works.

Itemisation

- 32 Separate items shall be provided for joints in accordance with the General Principles and the following:

Group	Feature	
1	1	Joints
2	1	Cut back flexible pavement
	2	Saw cutting flexible pavement
3	1	Not exceeding 300mm wide
4	1	Not exceeding 50mm deep
	2	Exceeding 50mm but not exceeding 100mm deep

Group 3 Feature 1 shall only apply to Group 2 Feature 1.

Cut Back Flexible Pavements

- 33 The items for cut back flexible pavements shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) loading into transport, upholding the sides and keeping the earthworks free of water;
- (b) taking precautions to avoid damage to property, structures, existing sewers, drains and services;
- (c) multiple handling of excavated materials;
- (d) disposal;
- (e) coating vertical face with bitumen;
- (f) saw cut full depth.

Saw Cutting Flexible Pavements

- 34 The items for saw cutting flexible pavements shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) saw cutting to full depths;
- (b) coating vertical face with bitumen.

Planing (Cold Milling)

- Units 35 The unit of measurement shall be:
- (i) planing square metre
- (ii) extra over planing for each increment in depth square metre
- (iii) extra over planing for haulage of planings to *Service Manager's* store tonne
- Measurement 36 The measurement of planing shall be the quantities ordered by the *Service Manager*. No deductions shall be made for openings of 1 square metres or less.
- 37 The measurement for extra planing for each increment in depth shall be for each additional stated increment ordered by the *Service Manager*.
- 38 The measurement for extra over planing for haulage of planings to *Service Manager's* store shall be the tonnage of planed material supported by certified delivery tickets.
- Itemisation 39 Separate items shall be provided for planing in accordance with the General Principles and the following:

Group	Feature
1	1 Planing flexible surfacing
2	1 Stated thicknesses or depths
3	1 Exceeding 250 square metres but not exceeding 1,000 square metres
	2 Exceeding 1,000 square metres but not exceeding 2,000 square metres
	3 Exceeding 2,000 square metres but not exceeding 4,000 square metres
	4 Metres Exceeding 4,000 square metres

Note: For each item of planing an adjustment item shall be provided for increases in depth for each variation as appropriate.

Itemisation 40 Separate items shall be provided for extra over planing for haulage of planings to *Service Manager's* store in accordance with the General Principles and the following:

Group	Feature	
1	1	Extra over planing for haulage of planings to <i>Service Manager's</i> store
2	1	Not exceeding 5 kilometres from site
	2	Exceeding 5 kilometres but not exceeding 15 kilometres from site
	3	Exceeding 15 kilometres but not exceeding 25 kilometres from site
	4	Exceeding 25 kilometres but not exceeding 35 kilometres from site

Planing 41 The items for planing shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage
- (a) re-shaping and rolling;
 - (b) shaping to cambers, falls and crowns;
 - (c) multiple handling of material;
 - (d) loading into transport;
 - (e) working around drainage channels, covers, gully gratings, expansion joints and the like;
 - (f) ramps;
 - (g) removing road studs for re-use;
 - (h) surface preparation and cleaning.

Extra Over Planing for Haulage of Planings to Service Manager's store 42 The items for extra over planing for haulage of planings to *Service Manager's* store shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage
- (a) multiple handling of material;
 - (b) loading into transport;
 - (c) deposition of material.

Surface Treatments

- Units 43 The unit of measurement shall be:
- (i) establishment of equipment number
- (ii) surface treatments square metre
- Measurement 44 Establishment of equipment for surface treatments shall be measured once for each site.
- 45 The measurement of surface treatment shall be the area of the top surface of the work ordered by the *Service Manager*.
- 46 No deductions shall be made for openings of 1 square metre or less.
- Itemisation 47 Separate items shall be provided for surface treatments in accordance with the General Principles and the following:

Group	Feature
1	1 Surface treatments
2	1 Stated types
3	1 Establishment
	2 Not exceeding 100 square metres
	3 Exceeding 100 square metres but not exceeding 500 square metres
	4 Exceeding 500 square metres

Note: An additional item shall be measured for different stated colours in lieu of natural colours.

- Establishment** 48 The items for establishment shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) provision and setting up equipment on sites;
- (b) maintaining equipment;
- (c) removing equipment upon completion.

Surface Treatments

49 The items for surface treatments shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) provision and supplying trial areas, trials, samples and site visit;
- (b) making good after sampling;
- (c) storing, handling or materials;
- (d) spreading and rolling deposited materials;
- (e) assessment of the site, designing and verifying of the surface treatment;
- (f) measures required for aftercare and opening to traffic.

Surface Dressing

Units

50 The unit of measurement shall be:

- (i) surface dressing square metre

Measurement

- 51 The measurement of surface dressing shall be the area of the top surface of the work ordered by the *Service Manager*.
- 52 No deductions shall be made for openings of 1 square metre or less.
- 53 Surface dressing shall be carried out as an annual programme of work.

Itemisation

54 Separate items shall be provided for surface dressing in accordance with the General Principles and the following:

Group	Feature
1	1 Surface dressing
2	1 Stated types and specifications
	2 Extra over for surface dressing for stated rates of spread or stated PSV stone or speed limits or narrow width roads

- Surface Dressing**
- 55 The items for surface dressing shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage
- (a) provision and supplying trial areas, trials, samples and site visit;
 - (b) making good after sampling;
 - (c) storing, handling or materials;
 - (d) spreading and rolling deposited materials;
 - (e) removal of surplus chippings;
 - (f) protection of surface dressing;
 - (g) assessment of the site, designing and verifying of the surface treatment.

Carriageway Patching

- Units
- 56 The unit of measurement shall be:
- (i) carriageway patching square metre
 - (ii) overlay patching tonne
- Measurement
- 57 Carriageway patching shall be measured for repairs to carriageways instructed by the *Service Manager*.
- 58 The measurement of carriageway patching shall be the area of the top surface ordered by the *Service Manager*
- 59 The measurement of overlay patching shall be the approved and certified tonnage of materials ordered by the *Service Manager*.
- Itemisation
- 60 Separate items shall be provided for carriageway patching and overlay patching in accordance with the General Principles and the following:

Group	Feature
1	1 Carriageway patching
2	1 Hand patching repairs
	2 Hand/planer patching repairs
	3 Machine patching repairs
	4 Extra over for stated variations

3	1	Stated materials, thicknesses or depths
4	1	Stated aggregated quantities

Carriageway Patching and Overlay Patching

Item coverage

61 The items for carriageway patching and overlay patching shall in accordance with the Preambles to Price List General Directions include for:

- (a) determination of the extent of the patching or volumes and agreement with the *Service Manager*;
- (b) base course, binder course and surface course;
- (c) excavation of unacceptable and hard material;
- (d) disposal of surplus materials;
- (e) scarifying and planing;
- (f) saw cutting and forming joints;
- (g) coating vertical faces with bitumen;
- (h) tack coat and bond coat;
- (i) bringing to correct levels and surface regularity following settlement;
- (j) removal of loose materials and water;
- (k) temporary road markings.

Carriageway Reinstatement

Units

62 The unit of measurement shall be:

- (i) carriageway reinstatement square metre
- (ii) sub-base in carriageway reinstatement cubic metres

Measurement

63 Carriageway reinstatement shall be measured for reinstatement to drainage trenches, trial holes and the like instructed by the *Service Manager*.

64 The measurement of carriageway reinstatement shall be the area of the top surface ordered by the *Service Manager*.

- 65 The measurement of sub-base in carriageway reinstatement shall be the volume of sub-base measured to the dimensions stated or quantities ordered by the Service Manager.
- Itemisation 66 Separate items shall be provided for carriageway reinstatement in accordance with the General Principles and the following:

Group	Feature	
1	1	Carriageway reinstatement
2	1	Sub-base in carriageway reinstatement
	2	Reinstatement of flexible carriageway
	3	Extra over for stated variations
3	1	Stated materials, thicknesses or depths
4	1	Stated aggregated quantities

Note: Aggregated quantities shall not apply for sub-base in carriageway reinstatement.

- Carriageway Reinstatement**
- Item coverage 67 The items for carriageway reinstatement shall in accordance with the Preambles to Price List General Directions include for:
- (a) determination of the extent of the reinstatement and agreement with the *Service Manager*;
 - (b) base binder course and surface course;
 - (c) excavation of unacceptable and hard material;
 - (d) disposal of surplus materials;
 - (e) scarifying and planing;
 - (f) saw cutting and forming joints;
 - (g) coating vertical faces with bitumen;
 - (h) tack coat and bond coat;
 - (i) bringing to correct levels and surface regularity following settlement;
 - (j) removal of loose materials and water;

- (k) temporary road markings.

**Sub-base in
Carriageway
Reinstatement**

Item coverage

68 The items for sub-base in carriageway reinstatement shall in accordance with the Preambles to Price List General Directions include for:

- (a) trial areas and trials;
- (b) making good after sampling and testing;
- (c) protection of material in transit and while awaiting tipping;
- (d) grading, measuring, mixing and depositing materials;
- (e) spreading and compaction;
- (f) cleaning, preparing and working on or up to existing surfaces and features;
- (g) curing and protection;
- (h) edge support;
- (i) maintenance of surface;
- (j) taking measures to protect the subgrade, capping and sub-base from deterioration due to the ingress of water and the use of constructional plant;
- (k) taking measures to improve the subgrade, capping and sub-base from damage due to the *Contractor's* method of construction and choice of constructional plant;
- (l) shaping to cambers, falls and crowns;
- (m) provision of test certificates.

Units

69 **Carriageway Haunching**

The unit of measurement shall be:

- (i) carriageway haunching square metre

Measurement

70 The measurement of carriageway haunching shall be the area of the top surface ordered by the *Service Manager*.

Itemisation

71 Separate items shall be provided for carriageway haunching in accordance with the General Principles and the following:

Group	Feature	
1	1	Haunch repairs to existing carriageway
2	1	Stated materials, thicknesses or depths
3	1	Stated aggregated quantities

Carriageway Haunching

Item coverage

- 72 The items for carriageway haunching shall in accordance with the Preambles to Price List General Directions include for:
- (a) sub-base, formation and sub-formation;
 - (b) base course, binder course and surface course;
 - (c) excavation of unacceptable and hard material;
 - (d) disposal of surplus materials;
 - (e) scarifying and planing;
 - (f) saw cutting and forming joints;
 - (g) coating vertical faces with bitumen;
 - (h) tack coat and bond coat;
 - (i) bringing to correct levels and surface regularity following settlement;
 - (j) temporary road markings.

SERIES 1100: KERBS, FOOTWAYS AND BLOCK PAVED AREAS

Kerbs and Channels

- Units** 1 The unit of measurement shall be:
- (i) kerbs, combined kerb drainage block, channels, edgings, and the like linear metre
- (ii) quadrants, combined kerb drainage gully units and the like number
- Measurement** 2 The measurement of kerbs, channels, edgings and the like shall be continuous lengths ordered by the *Service Manager*. No deduction shall be made for gaps of less than 1 linear metre.
- 3 Where an item states a continuous length of kerbing exceeding 100 metres this may be for one type or several types provided that the total continuous length exceeds 100 metres. This shall not be the aggregated length noted in the general preambles
- 4 The measurement of quadrants, combined kerb type gully units and the like shall be the number ordered by the *Service Manager*.
- Itemisation** 5 Separate items shall be provided for kerbs, channels, edgings, and quadrants in accordance with the General Principles and the following:

Group	Feature
1	1 Kerbs
	2 Combined kerb drainage block
	3 Channels
	4 Edgings
	5 Granite kerbs
	6 Quadrants or units
2	1 Stated types
3	1 Laid in continuous lengths of over 100m
4	1 Stated bed and backing

5	1	Straight or curved exceeding 12 metres radius
	2	Curved not exceeding 12 metres radius

**Kerbs,
Channels,
Edgings,
Granite Kerbs
and Quadrants**

Item coverage

6 The items for kerbs, channels, edgings, granite kerbs and quadrants shall in accordance with the Preambles to Price List General Directions include for:

- (a) trial mixes;
- (b) making good after sampling and testing;
- (c) excavation of acceptable materials;
- (d) excavation of unacceptable materials;
- (e) disposal of material;
- (f) concrete;
- (g) formwork;
- (h) reinforcement;
- (i) maintenance of surface;
- (j) bedding, jointing, including movement joints, filling and sealing joints;
- (k) keying of surfaces and tack coats;
- (l) surface finishing, curing and protecting;
- (m) gratings, frames, bedding and seatings;
- (n) tie bars;
- (o) drainage holes or pipes through concrete;
- (p) quadrants, dropper kerbs and other special kerb units;
- (q) edge support;
- (r) preservation of timber;
- (s) cutting;
- (t) drainage layer;

- (u) additional pavement material below channels;
- (v) backfilling and compaction;
- (w) special units and fitting;
- (x) connections to chambers;
- (y) epoxy mortar.

Remove from Store and Relay Granite Kerbs and Channels

- Units 7 The unit of measurement shall be:
- (i) remove from store and relay granite kerbs and channels
... .. linear metre
- Measurement 8 The measurement for remove from store and relay granite kerbs and channels shall be the length ordered by the *Service Manager*. No deduction shall be made for gaps of less than 1 linear metre.
- Itemisation 9 Separate items shall be provided for remove from store and relay granite kerbs and channels in accordance with the General Principles and the following:

Group	Featured	
1	1	Remove from store and relay granite kerbs
	2	Remove from store and relay granite channels
2	1	Stated sizes
3	1	Straight or curved exceeding 12 metres radius
	2	Curved not exceeding 12 metres radius

- Remove from Store and Relay Granite Kerbs and Channels** 10 The items for remove from store and relay granite kerbs and channels shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage (a) loading, transporting from store, unloading and positioning for relaying;

- (b) replacing items damaged during the foregoing operations;
- (c) modification and new materials;
- (d) kerbs, channels, edgings, granite setts and quadrants;
- (e) new epoxy bed and concrete backing.

Extra Over any items of Kerbs and Channels for shorter lengths

- | | | |
|-------------|----|--|
| Units | 11 | The unit of measurement shall be: <ul style="list-style-type: none"> (i) extra over any items of kerbs and channels for shorter lengths linear metre |
| Measurement | 12 | The measurement of extra over any item of kerbs and channels for shorter lengths shall be quantities ordered by the <i>Service Manager</i> . |
| | 13 | For the purposes of measurement the dimension for quadrants and the like shall be the linear measurement taken at the rear face of the quadrant. |
| Itemisation | 14 | Separate items shall be provided for extra over any items of kerbs and channels for shorter lengths in accordance with the General Principles and the following: |

Group	Feature	
1	1	Extra over any items of kerbs and channels for shorter lengths
2	1	Continuous lengths not exceeding 10 metres
	2	Continuous lengths exceeding 10 metres but not exceeding 25 metres
	3	Continuous lengths exceeding 25 metres but not exceeding 100 metres

- | | | |
|---|----|---|
| Extra Over any items of Kerbs and Channels for Shorter Lengths | 15 | The items for extra over any items of kerbs and channels for shorter lengths shall in accordance with the Preambles to Price List General Directions include for: |
|---|----|---|

- Item coverage
- (a) additional costs and resources due to small quantities;
 - (b) handling and placing;
 - (c) additional concrete for kerbs, channels, edgings, drainage and kerb blocks.

Additional Concrete for Kerbs, Channels, Edgings, Drainage and Kerb Blocks

- Units 16 The unit of measurement shall be:
- (i) additional concrete for kerbs, channels, edgings, drainage and kerb blocks cubic metre
- Measurement 17 The measurement of additional concrete for kerbs, channels, edgings, drainage and kerb blocks shall be the volume ordered by the *Service Manager* in excess of the standard requirements of the Contract for each type of kerb, channel, edging, drainage and kerb block.
- Itemisation 18 Separate items shall be provided for additional concrete for kerbs, channels, edgings, drainage and kerb block in accordance with the General Principles and the following:

Group	Feature	
1	1	Additional concrete for kerbs, channels, edgings, drainage and kerb blocks
2	1	Stated mixes or grades

- Additional Concrete for Kerbs, Channels, Edgings, Drainage and Kerb Blocks** 19 The items for additional concrete for kerbs, channels, edgings, drainage and kerb blocks shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage
- (a) excavation of acceptable material;
 - (b) excavation of unacceptable material;
 - (c) excavation in hard material;
 - (d) in situ concrete;

- (e) formwork;
- (f) forming, filling and sealing joints;
- (g) surface finishing, curing and protecting;
- (h) drainage holes or pipes through concrete;
- (i) disposal of material.

Sub-base

- Units 20 The unit of measurement shall be:
- (i) sub-base square metre
- Measurement 21 The measurement of sub-base shall be the volume of sub-base measured to the dimensions stated or quantities ordered by the Service Manager.
- Itemisation 22 Separate items shall be provided for sub-base in accordance with the General Principles and the following:

Group	Feature
1	1 Each group or type of sub-base
	2 Re-grade existing sub-base
2	1 In footway or paved area
	2 In footway reinstatement
3	1 Stated thicknesses
4	1 Not exceeding 10 square metres
	2 Exceeding 10 square metres but not exceeding 50 square metres
	3 Exceeding 50 but not exceeding 250 square metres
	4 Exceeding 250 square metres

Sub-base	23	The items for sub-base shall in accordance with the Preambles to Price List General Directions include for:
Item coverage		<ul style="list-style-type: none"> (a) trial areas and trials; (b) making good after sampling and testing; (c) protection of material in transit and while awaiting tipping; (d) grading, measuring, mixing and depositing materials; (e) spreading and compaction; (f) cleaning, preparing and working on or up to existing surfaces and features; (g) curing and protection; (h) edge support; (i) maintenance of surface; (j) taking measures to protect the subgrade, capping and sub-base from deterioration due to the ingress of water and the use of constructional plant; (k) taking measures to improve the subgrade, capping and sub-base from damage due to the <i>Contractor's</i> method of construction and choice of constructional plant; (l) shaping to cambers, falls and crowns; (m) provision of test certificates.

Block or Slab Paving

Units	24	The unit of measurement shall be: <ul style="list-style-type: none"> (i) block or slab paving square metre (ii) extra over for pointing, cutting to radius and radial cutting linear metre
Measurement	25	The measurement of footways and paved areas shall be the quantities ordered by the <i>Service Manager</i> .
	26	The description for block or slab paving shall state the thickness of paving and bedding separately.
	27	No deduction shall be made for openings of 1 square metre or less.

Itemisation 28 Separate items shall be provided for block or slab paving in accordance with the General Principles and the following:

Group	Feature
1	1 Block or slab paving
2	1 Stated types of block or slab
3	1 Stated thicknesses of bed
4	1 Not exceeding 10 square metres
	2 Exceeding 10 square metres but not exceeding 50 square metres
	3 Exceeding 50 square metres but not exceeding 250 square metres
	4 Exceeding 250 square metres
5	1 Extra over for mortar bed
	2 Extra over for pointing
	3 Extra over for cutting to radius, radial cutting

Note: An extra over item shall be included for mortar bed, pointing, cutting to radius or radial cutting.

Block or Slab Paving 29 The items for block or slab paving shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) compacting;
- (b) edge support;
- (c) concrete;
- (d) formwork;
- (e) joint filler and sealant;
- (f) trial mixes;
- (g) laying to levels and falls;
- (h) bedding, jointing and pointing;

- (i) straight, circular and radial cutting and fittings.

Relay Block or Slab Paving

- Units 30 The unit of measurement shall be:
- (i) relay block or slab paving square metre
 - (ii) extra over for pointing, cutting to radius and radial cutting
... .. linear metre
- Measurement 31 The measurement of relay block or slab paving shall be the top surface area of the quantities ordered by the *Service Manager*
- 32 No deductions shall be made for openings 1 square metre or less.
- Relay Block or Slab Paving** 33 Separate items shall be provided for relay block or slab paving in accordance with the General Principles and the following:

Itemisation

Group	Feature	
1	1	Remove from set aside and replay in contiguous area over 250 square metres
2	1	Stated types of block or slab paving
3	1	Stated bed thicknesses
4	1	Not exceeding 10 square metres
	2	Exceeding 10 square metres but not exceeding 50 square metres
	3	Exceeding 50 square metres but not exceeding 250 square metres
	4	Exceeding 250 square metres
5	1	Extra over for mortar bed
	2	Extra over for pointing
	3	Extra over for cutting to radius, radial cutting.

Note: An extra over item shall be included for mortar bed, pointing, cutting to radius or radial cutting.

- Relay Block or Slab Paving** 34 The items for relay block or slab paving shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage
- (a) loading, transporting from store unloading and positioning for relaying;
 - (b) replacing items damaged during the foregoing operations;
 - (c) modification and new materials;
 - (d) bedding, compaction and disposal of surplus materials.
 - (e) Block or slab paving (as this series paragraph 28)

Flexible Paving

- Units 35 The unit of measurement shall be:
- (i) flexible paving square metre
- Measurement 36 The measurement of flexible paving shall be top surface area ordered by the *Service Manager*.
- 37 No deduction shall be made for openings of 1 square metre or less.
- Itemisation 38 Separate items shall be provided for flexible paving in accordance with the General Principles and the following:

Group	Feature
1	1 Flexible paving
2	1 Binder course
	2 Surface course
3	1 Stated specifications or types
4	1 Stated thicknesses
5	1 Not exceeding 10 square metres
	2 Exceeding 10 square metres but not exceeding 50 square metres
	3 Exceeding 50 square metres but not exceeding 250 square metres
	4 Exceeding 250 square metres

Note: An item shall be provided as appropriate for additional 5mm thickness of binder or surface course irrespective of aggregated quantity.

Flexible Paving 39 The items for flexible paving shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) compaction;
- (b) edge support;
- (c) sampling and testing;
- (d) cutting back, saw cutting, cleaning and preparing adjacent surfaces;
- (e) surface textures;
- (f) shaping to cambers, falls and covers;
- (g) laying to levels and falls;
- (h) forming sockets, holes and openings;
- (i) curing and protection;
- (j) binder course and surface course;
- (k) maintenance of surface.

Bond Coat

Units 40 The unit of measurement shall be:

- (i) bond coat square metre

Measurement 41 The measurement of bond coat shall be the surface area to be coated as ordered by the *Service Manager*.

Itemisation 42 Separate items shall be provided for bond coat in accordance with the General Principles and the following:

Group	Feature
1	1 Bond Coat
2	1 Stated materials
3	1 Stated rates of spread

4	1	Not exceeding 10 square metres
	2	Exceeding 10 square metres but not exceeding 50 square metres
	3	Exceeding 50 square metres but not exceeding 250 square metres
	4	Exceeding 250 square metres

Bond Coat 43 The items for bond coat shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) trial area and trials;
- (b) making good after sampling and testing;
- (c) designing and verifying mixes;
- (d) grading, measuring, mixing and depositing materials;
- (e) making joints;
- (f) cleaning surfaces;
- (g) protection and masking and unmasking or kerbs, drainage, channels, chamber covers, gully gratings, expansion joints, road studs, road markings and the like and obtaining clean markings;
- (h) cutting back, preparing and working on or up to adjacent faces, surfaces and features;
- (i) admixtures and additives.

Planing (Cold Milling)

Units 44 The unit of measurement shall be:

- (i) planing square metre

Measurement 45 The measurement of planing shall be the quantities ordered by the *Service Manager*. No deductions shall be made for openings of 1 square metre or less.

Itemisation 46 Separate items shall be provided for planing in accordance with the General Principles and the following:

Group	Feature	
1	1	Planing
2	1	Stated thicknesses or depths
3	1	Exceeding 50 square metres but not exceeding 150 square metres in area.
	2	Exceeding 150 square metres but not exceeding 500 square metres in area.
	3	Exceeding 500 square metres

Note: Where appropriate an adjustment item shall be provided for increases in depth as stated in the Price List irrespective of area.

- Planing** 47 The items for planing shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage
- (a) re-shaping and rolling;
 - (b) shaping to cambers, falls and crowns;
 - (c) multiple handling of material;
 - (d) loading into transport;
 - (e) disposal of material;
 - (f) working around drainage channels, chamber covers, gully gratings, expansion joints and the like;
 - (g) ramps;
 - (h) removing road studs not required for re-use;
 - (i) surface preparation and cleaning.

Footway Patching

- Units 48 The unit of measurement shall be:
- (i) footway patching square metre
- Measurement 49 The measurement of footway patching shall be the surface area ordered by the *Service Manager*.

Itemisation 50 Separate items shall be provided for footway patching in accordance with the General Principles and the following:

Group	Feature	
1	1	Footway patching
2	1	Stated thicknesses or depths.
3	1	Stated Aggregated quantities.
4	1	Not exceeding 50 square metres
	2	Exceeding 50 square metres

Footway Patching 51 The items for footway patching shall in accordance with the Preambles to Task Order Price List General Directions include for:

- Item coverage
- (a) determination of the extent of the reinstatement and agreement with the *Service Manager*;
 - (b) footways and paved areas;
 - (c) scarifying;
 - (d) planing;
 - (e) drilling holes;
 - (f) tack coat;
 - (g) bringing to correct levels and surface regularity following settlement;
 - (h) excavation of acceptable material;
 - (i) excavation of unacceptable material;
 - (j) excavation in hard material;
 - (k) disposal of material;
 - (l) saw cutting to full stated depth;
 - (m) coating vertical face with bitumen.

Footway Reinstatement

- Units 52 The unit of measurement shall be:
- (i) footway reinstatement square metre
- (ii) sub-base in footway reinstatement cubic metre
- Measurement 53 Footway reinstatement shall be measured for reinstatement to drainage trenches, trial holes and the like instructed by the *Service Manager*.
- 54 The measurement of footway reinstatement shall be the area of the top surface ordered by the *Service Manager*.
- 55 The measurement of sub-base in footway reinstatement shall be the volume of sub-base measured to the dimensions stated or quantities ordered by the *Service Manager*.
- Itemisation 56 Separate items shall be provided for footway reinstatement in accordance with the General Principles and the following:

Group	Feature	
1	1	Footway reinstatement
2	1	Sub-base in footway reinstatement
	2	Reinstatement of flexible footway
	3	Extra over for stated variations
3	1	Stated materials, thicknesses or depths
4	1	Stated aggregated quantities

Note: Aggregated quantities shall not apply for sub-base in footway reinstatement.

- Footway Reinstatement** 57 The items for footway reinstatement shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) determination of the extent of the reinstatement and agreement with the *Service Manager*;
- (b) binder course and surface course;

- (c) excavation of unacceptable and hard material;
- (d) disposal of surplus materials;
- (e) scarifying and planing;
- (f) saw cutting and forming joints;
- (g) coating vertical faces with bitumen;
- (h) tack coat and bond coat;
- (i) bringing to correct levels and surface regularity following settlement;
- (j) removal of loose materials and water;
- (k) temporary road markings.

Sub-base in footway reinstatement

58 The items for sub-base in footway reinstatement shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) trial areas and trials;
- (b) making good after sampling and testing;
- (c) protection of material in transit and while awaiting tipping;
- (d) grading, measuring, mixing and depositing materials;
- (e) spreading and compaction;
- (f) cleaning, preparing and working on or up to existing surfaces and features;
- (g) curing and protection;
- (h) edge support;
- (i) maintenance of surface;
- (j) taking measures to protect the subgrade, capping and sub-base from deterioration due to the ingress of water and the use of constructional plant;
- (k) taking measures to improve the subgrade, capping and sub-base from damage due to the *Contractor's* method of construction and choice of constructional plant;

- (l) shaping to cambers, falls and crowns;
- (m) provision of test certificates.

SERIES 1200: TRAFFIC SIGNS AND ROAD MARKINGS

Sign Faces

- Units 1 The unit of measurement shall be:
- (i) sign faces number
 - (ii) extra over sign face for stated finishes square metre
 - (iii) extra over sign face for clips number

- Measurement 2 The measurement of sign faces shall be the number of sign faces ordered by the *Service Manager*.
- 3 The measurement of extra over sign face for stated finishes shall be the surface area of the sign face ordered by the *Service Manager*.

- Itemisation 4 Separate items shall be provided for sign faces in accordance with the General Principles and the following:

Group	Feature	
1	1	Sign faces
2	1	Stated types
	2	Extra over sign face for stated finishes
3	1	Stated sizes
	2	Stated clips

- Sign Faces** 5 The items for sign faces shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage (a) covering and removal of covered of signs;
- (b) location lettering and marking;
- (c) protective system;
- (d) rivets, bolts, nuts and the like;
- (e) protective treatment;

- (f) notices and recordings;
- (g) light spill screens;
- (h) fixing to structures and posts including attachment systems;
- (i) delivery to site.

Sign Posts

- Units 6 The unit of measurement shall be:
- (i) sign posts number
 - (ii) extra over for additional lengths number
 - (iii) ancillaries and the like number
- Measurement 7 The measurement of sign posts shall be the complete installation of post ordered by the *Service Manager*.
- Itemisation 8 Separate items shall be provided for sign posts in accordance with the General Principles and the following:

Group	Feature	
1	1	Sign posts
2	1	Stated sizes, types and lengths
	2	Extra over for additional lengths
	3	Ancillaries and the like

- Sign Posts** 9 The items for sign posts shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) posts;
- (b) fixings and fittings.

Sign Post Foundations

- Units 10 The unit of measurement shall be:
- (i) sign post foundations number
- (ii) extra over for stated foundations number
- (iii) realign existing posts number
- Measurement 11 The measurement of sign post foundations shall be the number of post foundations ordered by the *Service Manager*.
- Itemisation 12 Separate items shall be provided for sign post foundations in accordance with the General Principles and the following:

Group	Feature	
1	1	Sign post foundations
2	1	Stated sizes and types
	2	Extra over for stated foundations
	3	Realign existing posts

- Sign Post Foundations** 13 The items for sign post foundations shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) excavation of acceptable material;
- (b) excavation of unacceptable material;
- (c) excavation in hard material;
- (d) backfilling and compaction;
- (e) in situ concrete;
- (f) formwork;
- (g) reinforcement;
- (h) reinstatement of surfaces;
- (i) disposal of material;
- (j) drilling or forming holes and pockets in structures or foundations and casting in bolts, sockets, base plates and anchorage assemblies;

- (k) bedding and grouting;
- (l) fixing in position and support.

Marker Posts

- Units 14 The unit of measurement shall be:
 - (i) marker posts number
- Measurement 15 The measurement of marker posts shall be the number of marker posts ordered by the *Service Manager*.
- Itemisation 16 Separate items shall be provided for marker posts in accordance with the General Principles and the following:

Group	Feature	
1	1	Marker posts
2	1	Stated sizes and types
	2	Extra over for stated fixings

- Marker Posts** 17 The items for marker posts shall in accordance with the Preambles to Price List General Directions include for:
 - (a) excavation of acceptable material;
 - (b) excavation of unacceptable material;
 - (c) excavation in hard material;
 - (d) backfilling and compaction;
 - (e) in situ concrete;
 - (f) formwork;
 - (g) reinforcement;
 - (h) reinstatement of surfaces;
 - (i) disposal of material;
 - (j) drilling or forming holes and pockets in structures or foundations and casting in bolts, sockets, base plates and anchorage assemblies;
- Item coverage

- (k) bedding and grouting;
- (l) fixing in position and support.

Illuminated Signage

- Units 18 The unit of measurement shall be:
- (i) illuminated signage number
- Measurement 19 The measurement of illuminated signage shall be the number of units, components or assemblies ordered by the *Service Manager*.
- 20 The measurement of disconnection and connection of illuminated signage and energy suppliers shall be paid for separately.
- Itemisation 21 Separate items shall be provided for illuminated signage in accordance with the General Principles and the following:

Group	Feature	
1	1	Illuminated signage
	2	Illuminated bollard
2	1	Stated sizes and types
3	1	Extra over for Photo Electric Cell

- Illuminated Signage** 22 The items for illuminated signage shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage
- (a) excavation of acceptable material;
 - (b) excavation of unacceptable material;
 - (c) excavation in hard material;
 - (d) backfilling and compaction;
 - (e) in situ concrete;
 - (f) formwork;
 - (g) reinforcement;
 - (h) reinstatement of surfaces;

- (i) disposal of material;
- (j) drilling or forming holes and pockets in structures or foundations and casting in bolts, sockets, base plates and anchorage assemblies;
- (k) bedding and grouting;
- (l) components, fixing in position and support.

Road Markings

Units	<p>23 The unit of measurement shall be:</p> <ul style="list-style-type: none"> (i) establishment of road marking removal gang and equipment or establishment of road marking application gang and equipment per ordered package of works number (ii) removal of existing road markings square metre (iii) permanent road markings to a specified width linear metre (iv) permanent road markings solid areas square metre (v) permanent road markings of triangles, circles with enclosing arrows, arrows, kerb markings, symbols, letters and numerals number (vi) extra over for road marking for drying of existing surface, markings applied to newly surface dressed roads and new areas of surfacing square metre
Measurement	<p>24 The establishment of road marking removal gang and equipment or establishment of road marking application gang and equipment shall only be measured once for each package of work.</p> <p>25 A package of work is a clearly defined schedule of work and sites to be completed on a single visit.</p> <p>26 The marking and removal of solid areas shall only be measured for the solid infilling between converging lines; the enclosing lines themselves shall be measured as lines.</p>

- 27 In the case of intermittent lines the measurement shall be of the marks only. Double lines shall be measured as two single lines.
- 28 Diagonal lines between double lines and short transverse lines at the ends of any longitudinal lines shall be measured with the lines of which they form part.
- 29 Ancillary lines shall include lines forming hatched areas, chevrons, zigzag lines, boxed areas and lines enclosing boxed areas. In the case of hatched areas and chevrons the enclosing lines shall be measured as the longitudinal line of which they form part. The measurement of zigzag lines shall include any transverse or longitudinal lines at their ends.
- 30 The measurement of circles with enclosing arrows (mini roundabouts) shall be for the complete marking, the external diameter of the circle being stated.
- 31 Kerb markings shall be measured as a single item irrespective of the number of lines forming any one marking.
- 32 Each letter or numeral shall be separately measured with all letters or numerals grouped together according to height.
- 33 Symbols shall be measured separately and grouped together according to size.
- Itemisation 34 Separate items shall be provided for road markings in accordance with the General Principles and the following:

Group	Feature	
1	1	Removal of existing road markings
	2	Permanent road markings
2	1	Establishment of road marking removal equipment
	2	Establishment of road marking application equipment
3	1	Stated materials, sizes or types
4	1	Extra over for road marking for drying of existing surface or markings applied to newly surface dressed roads or markings applied to new areas of surfacing

Removal of Road Markings	35	The items for the removal of road markings shall in accordance with the Preambles to Price List General Directions include for:
Item coverage		<ul style="list-style-type: none"> (a) disposal of material; (b) reinstatement of existing surfaces; (c) cleaning of surfaces; (d) partial or complete removal of marking.
Road Markings	36	The items for road markings shall in accordance with the Preambles to Price List General Directions include for:
Item coverage		<ul style="list-style-type: none"> (a) cleaning, brushing and drying surfaces (except where drying is specifically instructed by the <i>Service Manager</i>); (b) application of the marking materials including the incorporation of specified reflecting medium; (c) thinners, primers and tack coats; (d) apostrophes in the case of letters and numerals; (e) markings down the face of kerbs; (f) adhesives and two part materials; (g) setting out; (h) sampling and testing.

Road Studs

Units	37	The unit of measurement shall be: <ul style="list-style-type: none"> (i) establishment of road stud application equipment number (i) road studs number
Measurement	38	The establishment of road stud application equipment shall only be measured once for each package of work.
	39	A package of work is a clearly defined schedule of work and sites to be completed on a single visit. The measurement of road studs shall be the numbers ordered by the <i>Service Manager</i> .

Itemisation 40 Separate items shall be provided for road studs in accordance with the General Principles and the following:

Group	Feature	
1	1	Establishment of road stud application equipment
	2	Uni-directional studs
	3	Bi-directional studs
	4	Pedestrian crossing studs
2	1	Stated sizes, types.

Road Studs 41 The items for road studs shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage
- (a) cutting or forming holes;
 - (b) adhesives and grout;
 - (c) reinstatement of surfaces;
 - (d) disposal of material.

Street Furniture

Units 42 The unit of measurement shall be:

- (i) street furniture number

Measurement 43 The measurement shall be for the installation including materials used to fix the street furniture in position. The cost of supplying street furniture shall be paid as Series 8000 Time Charge materials.

44 The cost of collecting street furniture and delivering to site shall be paid as Series 8000 Time Charge.

Itemisation 45 Separate items shall be provided for installation only of street furniture in accordance with the General Principles and the following:

Group	Feature
1	1 Street furniture
2	1 Stated types, sizes

Street Furniture 46 The items for street furniture shall in accordance with the Preambles to Price List General directions include for:

Item coverage

- (a) permanent foundations;
- (b) installation in accordance with manufacturer's instructions;
- (c) painted finish/protective system;
- (d) fixtures and fittings.

SERIES 1700: STRUCTURAL CONCRETE

In Situ Concrete

- Units** 1 The unit of measurement shall be:
- (i) in situ concrete cubic metre
 - (ii) extra over for small quantities cubic metre
 - (iii) extra over where direct discharge is not possible
... day

- Measurement** 2 The measurement of in situ concrete shall be the net quantities stated by the drawings or ordered by the *Service Manager*. No deductions shall be made for holes, pipes, reinforcement, recesses and the like not exceeding 0.15 cubic metres in volume.
- 3 The measurement of extra over where direct discharge is not possible shall apply where direct discharge is not possible due to location of placed concrete being remote from carriageway or footway.

- Itemisation** 4 Separate items shall be provided for in situ concrete in accordance with the General Principles and the following:

Group	Feature	
1	1	In situ concrete
2	1	Stated mixes and grades
	2	Extra over for small quantities
	3	Extra over where direct discharge is not possible

- In Situ Concrete** 5 The items for in situ concrete shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage**
- (a) mix design and trial mixes;
 - (b) placing against any surface, compaction, finishing;
 - (c) curing and protection;
 - (d) falls, cambers and shaped profiles;

		(e)	construction joints;
		(f)	measures to control alkaline silica reaction;
		(g)	air entrainment;
		(h)	admixtures and additives;
		(i)	tamped finish.
Extra Over for Small Quantities	6		The items for extra over for small quantities shall in accordance with the Preambles to Price List General Directions include for:
Item coverage		(a)	additional costs and resources due to part loads;
		(b)	additional waste;
		(c)	handling and placing.
Extra Over for Remote Discharge	7		The items for extra over for remote discharge shall in accordance with the Preambles to Price List General Directions include for:
Item coverage		(a)	additional costs and resources due to remote location;
		(b)	changes to mixes to suit delivery methods;
		(c)	handling and placing.
Formwork			
Units	8		The unit of measurement shall be:
		(i)	formwork square metre
		(ii)	extra over for small quantities number
Measurement	9		The measurement of formwork shall be the area in contact with the finished concrete including measured over the face of openings of one square metre or less as ordered by the <i>Service Manager</i> .
	10		The measurement of extra over for small quantities shall be measured only once for the total quantities of formwork ordered by the <i>Service Manager</i> .
Itemisation	11		Separate items shall be provided for formwork in accordance with the General Principles and the following:

Group	Feature	
1	1	Formwork
2	1	Stated quantities
3	1	Straight
	2	Curved
4	1	More than 300mm wide at any inclination
	2	300mm or less at any inclination
5	1	Stated finishes

Note: An item for extra over for small quantities shall be measured as described in the price list and ordered by the *Service Manager*.

Formwork

12 The items for formwork shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) centering, supports, props and shaping;
- (b) fixing into position with cambers and falls;
- (c) linings to produce surface finishes;
- (d) cutting and fitting around projections, pipes, reinforcement and the like;
- (e) fillets, chamfers, splays and the like;
- (f) maintaining in position until struck;
- (g) striking, taking down and disposal;
- (h) making good holes and latencies;
- (i) working space.

- Extra Over for Small Quantities** 13 The items for extra over for small quantities shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) additional costs and resources due to small quantities;
(b) additional waste;
(c) handling and placing.

Steel Reinforcement

- Units 14 The units of steel reinforcement shall be:
- (i) bar and helical reinforcement tonne
(ii) fabric reinforcement square metre
(iii) dowels linear metre
(iv) extra over for small quantities number
- Measurement 15 The measurement for steel bar reinforcement or fabric reinforcement shall be the quantities ordered by the *Service Manager*. Steel bar reinforcement shall include the quantities calculated from bar schedules and other steel bar supports. No allowances shall be made for welds or mechanical connections.
- 16 The measurement for fabric reinforcement shall be the net area covered with no allowances for laps.
- Itemisation 17 Separate items shall be provided for steel reinforcement in accordance with the General Principles and the following:

Group	Feature	
1	1	Bar reinforcement
	2	Fabric reinforcement
	3	Dowels
2	1	Stated types
	2	Stated sizes

Note: An item for extra over for small quantities shall be measured as described in the price list and ordered by the *Service Manager*.

Steel Reinforcement	18	The items for steel reinforcement shall in accordance with the Preambles to Price List General Directions include for:
Item coverage		<ul style="list-style-type: none"> (a) cleaning, fabrication, cutting and bending; (b) binding with wire or other fixings; (c) supports, cover blocks and spacers; (d) extra fabric at laps; (e) welding and mechanical connections; (f) protective caps, sleeves and wrappings for dowels; (g) drilling in or forming holes, casting in and grouting for dowels.

Extra Over for Small Quantities	19	The items for extra over for small quantities shall in accordance with the Preambles to Price List General Directions include for:
Item coverage		<ul style="list-style-type: none"> (a) additional costs and resources due to small quantities; (b) handling and placing.

Repairs to Concrete Structures

Units	20	The units of repairs to concrete structures shall be: <ul style="list-style-type: none"> (i) repair mortar kilogramme (ii) silane impregnation square metre
Measurement	21	The measurement for repair mortar and silane impregnation shall be the quantities ordered by the <i>Service Manager</i> .
Itemisation	22	Separate items shall be provided for repairs to concrete structures in accordance with the General Principles and the following:

Group	Feature	
1	1	Repairs to concrete structures
2	1	Repair mortar
	2	Silane impregnation
3	1	Stated types, specification or aggregated quantities

- | | | |
|----------------------------|-----|--|
| Repair Mortar | 23 | The items for repair mortar shall in accordance with the Preambles to Price List General Directions include for: |
| Item coverage | (a) | mix design and trial mixes; |
| | (b) | placing against any surface, compaction, finishing; |
| | (c) | curing and protection; |
| | (d) | falls, cambers and shaped profiles; |
| | (e) | preparing exposed steelwork, treating exposed steel, priming; |
| | (f) | admixtures and additives. |
| Silane Impregnation | 24 | The items for silane impregnation shall in accordance with the Preambles to Price List General Directions include for: |
| Item coverage | (a) | applying according to manufacturer's instructions; |
| | (b) | curing and protection. |

SERIES 2000: WATERPROOFING FOR CONCRETE STRUCTURES

Waterproofing

- Units 1 The unit of measurement shall be:
- (i) removal of waterproofing square metre
- (ii) mobilisation of equipment number
- (iii) waterproofing square metre
- Measurement 2 The measurement of waterproofing shall be the quantities ordered by the *Service Manager*.
- 3 The measurement of mobilisation of equipment for proprietary system waterproofing shall be measured once per visit irrespective of the quantities undertaken per visit.
- Itemisation 4 Separate items shall be provided for waterproofing in accordance with the General Principles and the following:

Group	Feature
1	1 Removal
	2 Waterproofing
2	1 Stated types or specifications
3	1 Surfaces not exceeding 300mm wide
	2 Surfaces exceeding 300mm wide

Note: A separate item for mobilisation shall be provided for proprietary system waterproofing.

- Removal of Waterproofing** 5 The items for removal of waterproofing shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) removal of waterproofing;
- (b) preparing and cleaning;
- (c) handling unacceptable and contaminated materials;
- (d) disposal of contaminated and hazardous materials;

		(e)	protecting untreated areas and surfaces;
		(f)	additional welfare facilities.
Mobilisation	6		The items for mobilisation shall in accordance with the Preambles to Price List General Directions include for:
Item coverage		(a)	mobilisation and removal of specialist equipment;
		(b)	maintaining specialist equipment.
Waterproofing	7		The items for waterproofing shall in accordance with the Preambles to Price List General Directions include for:
Item coverage		(a)	mobilisation and removal of specialist equipment;
		(b)	preparing, cleaning and drying;
		(c)	priming, bonding agents and protective layers;
		(d)	additional materials as a result of the <i>Contractor's</i> choice of waterproofing;
		(e)	mitres and the like, making good at edges, laps and joints;
		(f)	protecting untreated areas and surfaces;
		(g)	supplying technical information and records;
		(h)	disposal of surplus materials.

Indicator Layers

Units	8		The unit of measurement shall be:
		(i)	indicator layers square metre
Measurement	9		The measurement of indicator layers shall be the quantities ordered by the <i>Service Manager</i> .
Itemisation	10		Separate items shall be provided for indicator layers in accordance with the General Principles and the following:

Group	Feature
1	Indicator layers
2	Stated types or specifications

- Indicator Layers** 11 The items for indicator layers shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage
- (a) mobilisation and removal of specialist equipment;
 - (b) preparing, cleaning and drying;
 - (c) priming, bonding agents and protective layers;
 - (d) additional materials as a result of the *Contractor's* choice of specification;
 - (e) mitres and the like, making good at edges, laps and joints;
 - (f) protecting untreated areas and surfaces;
 - (g) supplying technical information and records;
 - (h) disposal of surplus materials.

SERIES 2300: MOVEMENT JOINTS AND SEALING OF GAPS

Movement Joints

- Units 1 The units of measurement shall be:
- (i) removal of existing movement joints linear metre
 - (ii) installation of movement joints linear metre
 - (iii) additional material to expansion joints kilogramme

- Measurement 2 The measurement of movement joints shall be the quantities ordered by the *Service Manager*.

- Itemisation 3 Separate items shall be provided for movement joints in accordance with the General Principles and the following:

Group	Feature	
1	1	Removal of movement joints
	2	Installation of movement joints
2	1	Stated sizes

Note: Additional material to the installation of movement joints shall be measured where ordered by the *Service Manager*.

- Removal of Movement Joints** 4 The items for removal of movement joints shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage
- (a) removing existing joints including fixings and disposal of surplus materials;
 - (b) saw cutting and cleaning existing surfaces;
 - (c) preparing and priming surfaces for new joints;
 - (d) protecting existing surfaces;
 - (e) installing membranes;
 - (f) providing textured and skid resistant surface;

- (g) curing and joining materials;
 - (h) supplying data sheets and records to the *Service Manager*.
- Installation of Movement Joints**
- Item coverage
- 5 The items for installation of movement joints shall in accordance with the Preambles to Price List General Directions include for:
- (a) preparing and priming surfaces for new joints;
 - (b) installing membranes;
 - (c) installing joints;
 - (g) curing and joining materials;
 - (h) supplying data sheets and records to the *Service Manager*.

Sealing of Gaps

- Units
- 6 The unit of measurement shall be:
- (i) joint filler board square metre
 - (ii) joint sealant linear metre
- Measurement
- 7 The measurement of sealing of gaps shall be the quantities ordered by the *Service Manager*.
- Itemisation
- 8 Separate items shall be provided for sealing of gaps in accordance with the General Principles and the following:

Group	Feature	
1	1	Joint filler board
	2	Joint sealant
2	1	Stated sizes

- Sealing of Gaps**
- 9 The items for sealing of gaps shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage
- (a) preparing, priming and cleaning surfaces;
 - (b) compressible strips;

- (c) masking and protection of existing surfaces;
- (d) complying with manufacturer's instructions;
- (e) providing records to the *Service Manager*.

SERIES 2400: BRICKWORK, BLOCKWORK AND STONEMWORK

Brickwork, Blockwork and Stonework

- Units 1 The unit of measurement shall be:
- (i) brickwork, blockwork and stonework square metre
- (ii) copings and the like linear metre
- Measurement 2 The measurement of brickwork blockwork and stonework shall be the quantities ordered by the *Service Manager*. No deductions shall be made for openings less than 0.10 square metres.
- 3 The measurement for copings and the like shall be the length of work ordered by the *Service Manager*.
- Itemisation 4 Separate items shall be provided for brickwork, blockwork and stonework in accordance with the General Principles and the following:

Group	Feature	
1	1	Brickwork, blockwork and stonework
	2	Copings and the like
2	1	Stated types of bricks, blocks or stone
3	1	Stated thicknesses

Note: Where a prime cost is included within an item description; this shall be adjusted by the actual net cost of bricks as appropriate.

- Brickwork, Blockwork and Stonework** 5 The items for brickwork, blockwork and stonework shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) bedding, mortar, jointing, and pointing;
- (b) bonding into existing work;
- (c) cavity filling between the brickwork and backing where specified;

- (d) measures to protect joints and pointing during curing;
- (e) sample panels;
- (f) building in pipes, fixings and the like;
- (g) damp proof courses and membranes;
- (h) admixtures, wall ties and additives;
- (i) bricks, blocks and stone.

Repointing of Brickwork, Blockwork or Stonework

- Units 6 The unit of measurement shall be:
- (i) repointing of brickwork, blockwork or stonework square metre
- Measurement 7 The measurement of repointing brickwork blockwork and stonework shall be the quantities ordered by the *Service Manager*.
- Itemisation 8 Separate items shall be provided for repointing brickwork, blockwork and stonework in accordance with the General Principles and the following:

Group	Feature	
1	1	Repointing of brickwork, blockwork and stonework
2	1	Stated types of mortar or pointing

- Repointing of Brickwork, Blockwork and Stonework** 9 The items for repointing of brickwork, blockwork and stonework shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage
- (a) raking out existing mortar;
 - (b) matching new and existing mortars;
 - (c) finishing to match existing;
 - (d) measures to protect joints and pointing during curing;
 - (e) mortar.

SERIES 3000: LANDSCAPE AND ECOLOGY

Grass Seeding and Turfing

- Units 1 The unit of measurement shall be:
- (i) grass seeding and turfing square metre
- Measurement 2 The measurement of grass seeding and turfing shall be the quantities ordered by the *Service Manager*.
- Itemisation 3 Separate items shall be provided for grass seeding and turfing in accordance with the General Principles and the following:

Group	Feature	
1	1	Grass seeding
	2	Turfing
2	1	Stated specifications
3	1	Stated aggregated quantities

- Grass Seeding and Turfing** 4 The items for grass seeding and turfing shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) preparation of existing surfaces to a fine tilth;
- (b) application of soil conditioner or fertiliser;
- (c) raking, watering and herbicide treatment;
- (d) initial cutting and maintenance;
- (e) reseeding, strimming and cutting;
- (f) importing turf, pegging and pinning;
- (g) levelling, infilling, herbicide;
- (h) dispersal, cutting around objectives and edges;
- (i) weed control and disposal of material;
- (j) certificates and notices.

Planting

- Units 5 The unit of measurement shall be:
- (i) planting number
- Measurement 6 The measurement of planting shall be the quantities ordered by the *Service Manager*.
- Itemisation 7 Separate items shall be provided for planting in accordance with the General Principles and the following:

Group	Feature	
1	1	Planting
2	1	Tree planting
	2	Hedge planting
3	1	Stated species

- Planting** 8 The items for planting shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) excavation of pits, trenches, planting and maintenance of plants;
- (b) backfilling with excavated materials;
- (c) stakes and plant identification labels;
- (d) soil conditioning or fertiliser;
- (c) storage, selection and handling;
- (d) protection and treatment of stock;
- (e) stakes, labelling, ties and the like;
- (f) pruning and watering;
- (g) levelling, infilling, herbicide;
- (h) sprays and additives;
- (i) notices, inspections and reporting;
- (e) disposal of surplus materials.

Arboriculture Works

- Units 9 The unit of measurement shall be:
- (i) taking down trees, grub up stumps, crown lift or thin trees, prune tree, removal of branch or limb number
- Measurement 10 The measurement of taking down trees, grub up stumps, crown lift or thin trees, prune tree, removal of branch or limb planting shall be the quantities ordered by the *Service Manager*.
- Itemisation 11 Separate items shall be provided for taking down trees, grub up stumps, crown lift or thin trees, prune tree, removal of branch or limb in accordance with the General Principles and the following:

Group	Feature	
1	1	Take down tree from ground level
	2	Take down tree including roots
	3	Grub up tree stump and roots
	4	Crown lift or thin tree
	5	Prune tree
	6	Removal of branch or limb
2	1	Stated sizes, girths or heights

Note: The girth of trees shall be measured at a height of 1.2 metres above ground.

- Taking Down Trees, Grub Up Stumps, Crown Lift or Thin Trees, Prune Tree, Removal of Branch or Limb**
- 12 The items for taking down trees, grub up stumps, crown lift or thin trees, prune tree, removal of branch or limb shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) taking down tree;
- (b) cutting into pieces and removal;
- (c) specific, general pruning, crown thinning or reduction;

- (d) achieving highway or street furniture clearance as required;
- (e) grinding up stumps;
- (f) filling holes and making good adjacent surfaces;
- (g) applying treatments;
- (h) disposal of materials from site.

SERIES 6000: SERVICE ACTIVITY – LANDSCAPE MAINTENANCE

Programmed Landscape Maintenance

- Units 1 The unit of measurement shall be:
- (i) programmed landscape maintenance month
- Measurement 2 The measurement of programmed landscape maintenance shall be for every whole month ordered by the *Service Manager* based upon the inventory included within the Service Information.
- 3 Unless specified otherwise by the Service Information, the measurement of programmed landscape maintenance shall be for each month undertaken.
- Itemisation 4 Separate items shall be provided for programmed landscape maintenance in accordance with the General Principles and the following:

Group	Feature	
1	1	Programmed landscape maintenance
2	1	Stated types

- Programmed Landscape Maintenance** 5 The items for programmed landscape maintenance shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) providing all measures, equipment and resources necessary to ensure compliance with the Service Activity Specification;
- (b) reports to the *Service Manager*;
- (c) collecting data and maintaining the inventory.

SERIES 6100: SERVICE ACTIVITY – DRAINAGE CLEANSING

Programmed Cleansing of Surface Water Drainage

- Units 1 The unit of measurement shall be:
- (i) programmed cleansing of surface water drainage
... month
- Measurement 2 The measurement of programmed cleansing of surface water drainage shall be for every whole month ordered by the *Service Manager* based upon the inventory included within the *Service Information*.
- 3 Unless specified otherwise by the Service Information, the measurement of programmed cleansing of surface water drainage shall be twelve months for each year.
- Itemisation 4 Separate items shall be provided for programmed cleansing of surface water drainage in accordance with the General Principles and the following:

Group	Feature	
1	1	Programmed cleansing of surface water drainage
2	1	Stated types

- Programmed Cleansing of Surface Water Drainage** 5 The items for programmed cleansing of surface water drainage shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) providing all measures, equipment and resources necessary to ensure compliance with the Service Activity Specification;
- (b) reports to the *Service Manager*;
- (c) processing of waste and disposal;
- (d) collecting data and maintaining the inventory.

Reactive Cleansing of Surface Water Drainage

Units 6 The unit of measurement shall be:

(i) reactive cleansing of surface water drainage hour

Measurement 7 The measurement of reactive cleansing of surface water drainage shall be the hours and quantities ordered by the *Service Manager*.

Itemisation 8 Separate items shall be provided for reactive cleansing of surface water drainage in accordance with the General Principles and the following:

Group	Feature	
1	1	Reactive cleansing of surface water drainage
2	1	Stated resources

Reactive Cleansing of Surface Water Drainage 9 The items for reactive cleansing of surface water drainage shall in accordance with the Preambles to Task Order Price List General Directions include for:

- Item coverage
- (a) providing all measures, equipment and resources necessary to ensure compliance with the Service Activity Specification;
 - (b) reports to the *Service Manager*;
 - (c) collecting data and maintaining the inventory.

SERIES 6200: SERVICE ACTIVITY – SIGN CLEANING

Sign Cleaning Service

- Units 1 The unit of measurement shall be:
 - (i) sign cleaning service month
- Measurement 2 The measurement of sign cleaning service shall be for every whole month ordered by the *Service Manager* based upon the inventory included within the Service Information.
- 3 Unless specified otherwise by the Service Information, the measurement of sign cleansing service shall be twelve months for each year.

Itemisation 4 Separate items shall be provided for sign cleaning service in accordance with the General Principles and the following:

Group	Featured	
1	1	Sign cleaning service
2	1	Stated types and sizes

Sign Cleaning Service 5 The items for sign cleaning service shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage (a) providing all measures, equipment and resources necessary to ensure compliance with the Service Activity Specification;
- (b) reports to the *Service Manager*;
- (c) collecting data and maintaining the inventory.

SERIES 6300: SERVICE ACTIVITY – MINOR REPAIRS

Minor Repairs

- Units 1 The unit of measurement shall be:
(i) minor repairs month
- Measurement 2 The measurement of minor repairs shall be for every whole month ordered by the *Service Manager* based upon the inventory included within the Service Information.
- 3 Unless specified otherwise by the Service Information, the measurement of minor repairs shall be twelve months for each year.
- Itemisation 4 Separate items shall be provided for minor repairs in accordance with the General Principles and the following:

Group	Feature	
1	1	Minor repairs
2	1	Stated types

- Minor Repairs** 5 The items for minor repairs shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) providing all measures, equipment and resources necessary to ensure compliance with the Service Activity Specification;
- (b) reports to the *Service Manager*;
- (c) collecting data and maintaining the inventory.

SERIES 7400: HIGHWAY CLEANING

Carriageway Sweeping

- Units 1 The unit of measurement shall be:
- (i) carriageway sweeping kilometre
- (ii) disposal of materials off site tonne
- Measurement 2 The measurement of carriageway sweeping shall be the lengths ordered by the *Service Manager*.
- 3 The measurement of disposal of materials off site shall be the quantities ordered by the *Service Manager* supported by authorised and certified weighbridge tickets for disposal.
- Itemisation 4 Separate items shall be provided for carriageway sweeping in accordance with the General Principles and the following:

Group	Feature	
1	1	Carriageway sweeping
2	1	Not exceeding 2m wide
3	1	Urban
	2	Rural
4	1	Stated aggregated lengths
	2	Additional widths
	3	Disposal of materials off site

- Carriageway Sweeping** 5 The items for carriageway sweeping shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) providing all measures, equipment and resources necessary to ensure compliance with the specification;
- (b) reports to the *Service Manager*;
- (c) collecting data and maintaining the inventory;
- (d) removal of loose material by sweeping.

- Disposal of Materials Off Site** 6 The items for disposal of materials off site shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) disposal of materials off site;
- (b) provision of authorised weighbridge tickets;
- (c) processing of waste;
- (c) reports and data to the Service Manager.

Removal of Litter from Verge and Central Reserve

- Units 7 The unit of measurement shall be:
- (i) removal of litter from central reserve kilometre
- (ii) disposal of materials off site tonne
- Measurement 8 The measurement of removal of litter from verge and central reserve shall be the lengths ordered by the *Service Manager*.
- 9 The measurement of disposal of materials off site shall be the quantities ordered by the *Service Manager* supported by authorised and certified weighbridge tickets for disposal.
- Itemisation 10 Separate items shall be provided for removal of litter from verge and central reserve in accordance with the General Principles and the following:

Group	Feature
1	1 Removal of litter from verge and central reserve
2	1 Note exceeding 2m wide
3	1 Urban
	2 Rural
4	1 Stated aggregated lengths
	2 Additional widths
	3 Disposal of materials off site

- Removal of Litter from Verge and Central Reserve** 11 The items for removal of litter from verge and central reserve shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage (a) providing all measures, equipment and resources necessary to ensure compliance with the specification;
- (b) reports to the *Service Manager*;
- (c) collecting data and maintaining the inventory.

Disposal of Materials Off Site 12 The items for disposal of materials off site shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage (a) disposal of materials off site;
- (b) provision of authorised weighbridge tickets;
- (c) reports and data to the *Service Manager*.

Removal of Objects and Debris

- Units 13 The unit of measurement shall be:
- (i) removal of objects and debris from verge and central reserve number, cubic metre
- Measurement 14 The measurement of removal of objects and debris shall be the quantities ordered by the *Service Manager*.
- Itemisation 15 Separate items shall be provided for removal of objects and debris in accordance with the General Principles and the following:

Group	Feature
1	1 Removal of objects and debris
2	1 Verge and central reserve
3	1 Not exceeding 0.25 cubic metres
	2 Exceeding 0.25 cubic metre but not exceeding 0.50 cubic metres
	3 Exceeding 0.50 cubic metre but not exceeding 1.00 cubic metres
	4 Exceeding 1.00 cubic metres
	5 Disposal of materials off site

Removal of Objects or Debris 16 The items for removal of objects or debris shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage
- (a) providing all measures, equipment and resources necessary to ensure compliance with the specification;
 - (b) reports to the *Service Manager*;
 - (c) leaving the site tidy and clean.

Disposal of Materials Off Site 17 The items for disposal of materials off site shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage
- (a) disposal of materials off site;
 - (b) provision of authorised weighbridge tickets;
 - (c) reports and data to the *Service Manager*.

Siding

- Units 18 The unit of measurement shall be:
- (i) siding linear metre
 - (ii) disposal of materials off site cubic metre
- Measurement 19 The measurement of siding shall be the quantities ordered by the *Service Manager*.
- Itemisation 20 Separate items shall be provided for siding in accordance with the General Principles and the following:

Group	Feature
1	1 Siding
2	1 Footway
	2 Carriageway
3	1 Not exceeding 150mm wide
	2 Exceeding 150mm wide but not exceeding 300mm wide
	3 Disposal of materials off site

Siding	21	The items for siding shall in accordance with the Preambles to Price List General Directions include for
Item coverage		<ul style="list-style-type: none"> (a) providing all measures, equipment and resources necessary to ensure compliance with the specification; (b) trimming edges to a neat line; (c) spreading surplus materials on the verge within one kilometre of the excavated material or loading away into transport; (d) leaving the site tidy and clean; (e) reports to the <i>Service Manager</i>.

Disposal of Materials Off Site	22	The items for disposal of materials off site shall in accordance with the Preambles to Price List General Directions include for:
Item coverage		<ul style="list-style-type: none"> (a) disposal of materials off site; (b) submitting records and weighbridge tickets to the <i>Service Manager</i>; (c) compiling reports of waste disposal.

Clearing of Existing Ditches

Units	23	The unit of measurement shall be: <ul style="list-style-type: none"> (i) clearing of existing ditches linear metre (ii) disposal of materials off site cubic metre
Measurement	24	The measurement of clearing of existing ditches shall be the quantities ordered by the <i>Service Manager</i> .
	25	The measurement of disposal of materials off site shall be the quantities ordered by the <i>Service Manager</i> .
Itemisation	26	Separate items shall be provided for clearing of existing ditches in accordance with the General Principles and the following:

Group	Feature
1	1 Clearing of existing ditches
2	1 Depth to invert not exceeding 0.50 metres
	2 Depth to invert exceeding 0.50 metres but not exceeding 1.00 metres
	3 Depth to invert exceeding 1.00 metres but not exceeding 1.50 metres
	4 Disposal of materials off site

Clearing of Existing Ditches

Item coverage

- 27 The items for clearing of existing ditches shall in accordance with the Preambles to Price List General Directions include for:
- (a) providing all measures, equipment and resources necessary to ensure compliance with the specification;
 - (b) trimming edges to a neat line;
 - (c) spreading surplus materials on the verge within one kilometre of excavated material or loading away into transport;
 - (d) leaving the site tidy and clean;
 - (e) reports to the *Service Manager*.

Disposal of Materials Off Site

Item coverage

- 28 The items for disposal of materials off site shall in accordance with the Preambles to Price List General Directions include for:
- (a) disposal of materials off site;
 - (b) submitting records and weighbridge tickets to the *Service Manager*;
 - (c) compiling reports of waste disposal.

Grips

Units

- 29 The unit of measurement shall be:
- (i) grips linear metre
 - (ii) disposal of materials off site cubic metre

Measurement 30 The measurement of grips shall be the quantities ordered by the *Service Manager*.

Itemisation 31 Separate items shall be provided for grips in accordance with the General Principles and the following:

Group	Feature
1	1 Grips
2	1 Form new grip
	2 Reshape existing grip
	3 Disposal of materials off site

Grips 32 The items for grips shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage
- (a) providing all measures, equipment and resources necessary to ensure compliance with the specification;
 - (b) trimming edges to a neat line;
 - (c) spreading surplus materials on the verge within one kilometre of excavated material or loading away into transport;
 - (d) leaving the site tidy and clean;
 - (e) reports to the *Service Manager*.

Disposal of Materials Off Site 33 The items for disposal of materials off site shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage
- (a) disposal of materials off site;
 - (b) submitting records and weighbridge tickets to the *Service Manager*;
 - (c) compiling reports of waste disposal.

SERIES 7800: WINTER MAINTENANCE

Winter Maintenance Service

- Units 1 The unit of measurement shall be:
 - (i) winter maintenance service month
- Measurement 2 The measurement of winter maintenance service shall be for the whole period required by the *Service Manager*. Stated seasonal periods shall add to a sum of twelve months duration per year.
- Itemisation 3 Separate items shall be provided for winter maintenance service in accordance with the General Principles and the following:

Group	Feature	
1	1	Basic facility
2	1	Stated seasonal periods

- Winter Maintenance Service** 4 The items for winter maintenance service shall in accordance with the Preambles to Price List General Directions include for:
 - (a) providing all measures, equipment, resources and arrangements necessary to ensure compliance with the specification, service plan and Service Information including design of salt routes, design of the snow clearing routes, provision and management of salt stocks and the provision of equipment at each designated loading point provided by the *Contractor*;
 - (b) all costs of equipment to vehicles and plant with ploughs and inserts, blowers and throwers;
 - (c) routine maintenance operations to the *Employer's* snow ploughs, during and outside seasonal periods;
 - (d) training of operatives with operational vehicles with relevant certification;
 - (e) protection of *Employer's* and *Contractor's* equipment;
 - (f) 24 hour availability of equipment to a serviceable condition;
- Item coverage

- (g) provision of a responsible person to receive the *Service Manager's* instructions on winter maintenance and to ensure satisfactory compliance with any such instructions;
- (h) provision of facilities to Depots owned by the *Employer* and other contractors acting on instructions from the *Employer*;
- (i) provision of specified communication facilities in *Contractor's* operational vehicles;
- (j) reports to the *Service Manager* on the condition of equipment provided by the *Employer*;
- (k) arrangements to ensure operatives and equipment are available to meet specified response times;
- (l) provision of servicing arrangements with suitable facilities;
- (m) repairs, servicing, inspecting and testing of equipment in accordance with the works information;
- (n) providing consumables, replacement parts and materials for *Employer's* equipment;
- (o) calibration of spreading equipment prior to the seasonal operation period and providing a Certificate of Calibration to the *Service Manager*;
- (p) vehicle tracking and location devices;
- (q) vehicles and equipment specified within the Service Information.

Precautionary Salting

Units	5	The unit of measurement shall be: <ul style="list-style-type: none"> (i) precautionary salting kilometre
Measurement	6	The measurement of precautionary salting shall be the extent of salting or gritting lengths ordered by the <i>Service Manager</i> .
Itemisation	7	Separate items shall be provided for precautionary salting or gritting in accordance with the General Principles and the following:

Group	Feature	
1	1	Precautionary salting
2	1	Primary routes
	2	Secondary routes
3	1	Stated time periods

Note: Extra over items shall be provided increased spread rates for precautionary salting.

Precautionary Salting

Item coverage

- 8 The items for precautionary salting shall in accordance with the Preambles to Price List General Directions include for:
- (a) provision of vehicles and equipment;
 - (b) provision and testing of salt or grit materials;
 - (c) ploughing and spreading within specified timescales;
 - (d) moisture content monitoring;
 - (e) emptying vehicles of surplus materials and returning to store for re-use;
 - (f) cleaning of *Contractor's* and *Employer's* vehicles and equipment upon completion of operations;
 - (g) notifying the *Service Manager* of any faults with the *Contractor's* and *Employer's* vehicles and equipment;
 - (h) reports to the *Service Manager* together with records of the location, timing and work carried out during the salting or gritting operations.

Extra Over Precautionary Salting for Increased Spread Rates

Item coverage

- 9 The items for extra over precautionary salting for increased spread rates shall in accordance with the Preambles to Price List General Directions include for:
- (a) provision of vehicles and equipment;
 - (b) provision of additional salt.

Winter Service Duties

- Units 10 The unit of measurement shall be:
- (i) operatives for winter service duties hour
- (ii) equipment for winter service hour
- (iii) materials for winter service tonne
- Measurement 11 The measurement for winter service duties shall be the quantities ordered by the *Service Manager*.
- Itemisation 12 Separate items shall be provided for winter service duties in accordance with the General Principles and the following:

Group	Feature	
1	1	Operatives for winter service duties
	2	Equipment for winter service duties
	3	Materials for winter service duties
2	1	Stated resources

- Operatives for Winter Maintenance Duties**
- Item coverage 13 The items for operatives for winter maintenance duties shall in accordance with the Preambles to Price List General Directions include for:
- (a) wages and bonus payments;
- (b) overtime unless specifically requested by the *Service Manager*;
- (c) National Insurances, levies and taxes;
- (d) holiday and statutory contributions;
- (e) provision of small tools appropriate to each trade, protective clothing;
- (f) travelling time, transport to the site;
- (g) welfare facilities;
- (h) use of suppliers and subcontractors;
- (i) supervision and management.

**Equipment for
Winter Service
Duties**

14 The items for equipment for winter service duties shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) fuel and consumables;
- (b) repairs, servicing and maintenance;
- (c) insurances and replacement;
- (d) transport to site;
- (e) use of suppliers and subcontractors;
- (f) supervision and management.

**Materials for
Winter Service
Duties**

15 The items for materials for winter service duties shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) ordering and taking delivery;
- (b) providing materials;
- (c) unloading, storing and protecting;
- (d) waste and discounts;
- (e) supervision and management.

SERIES 7900: EMERGENCY RESPONSE

Emergency Response Service

- Units 1 The unit of measurement shall be:
 - (i) emergency response service month
- Measurement 2 The measurement of emergency response service shall be for the whole period required by the *Service Manager*.
- 3 Unless specified otherwise by the Service Information, the measurement of emergency response service shall be twelve months for each year.
- Itemisation 4 Separate items shall be provided for emergency response service in accordance with the General Principles and the following:

Group	Feature	
1	1	Emergency response service
2	1	Basic facility

- Emergency Response Service** 5 The items for emergency response service shall in accordance with the Preambles to Price List General Directions include for:
 - (a) all charges and payments connected with the provision and use of vehicles, materials and equipment;
 - (b) 24 hour availability of operatives, vehicles, equipment and supervision together with a call centre and contact details;
 - (c) issuing to the *Service Manager* call out rosters detailing names and contact details of resources available for emergency call outs;
 - (d) provision of a responsible person to receive *Service Manager's* instructions and to ensure compliance with any such instructions;
 - (e) mobilisation and management of resources to meet designated response times;
- Item coverage

- (f) reporting to the *Service Manager* with details of incidents and all work carried out.

Emergency Call Out Team

- | | | |
|-------------|---|---|
| Units | 6 | The unit of measurement shall be: <ul style="list-style-type: none"> (i) emergency call out team number (ii) additional hours required at incident hour |
| Measurement | 7 | The measurement of emergency call out team shall be the number of call outs ordered by the <i>Service Manager</i> . The call out team shall include provision for up to two hours resource at the incident. |
| | 8 | Additional resources required in excess of two hours at the incident shall be measured separately. |
| Itemisation | 9 | Separate items shall be provided for emergency call out team in accordance with the General Principles and the following: |

Group	Feature	
1	1	Emergency call out team
	2	Additional hours required at incident
2	1	Stated time periods

- | | | |
|--------------------------------|----|---|
| Emergency Call Out Team | 10 | The items for emergency call out team shall in accordance with the Preambles to Price List General Directions include for: |
| Item coverage | | <ul style="list-style-type: none"> (a) providing all measures, equipment and resources specified and detailed in the specification; (b) mobilisation and management of resources to meet designated response times; (c) continued management and deployment of resources; (d) clear site of all materials and equipment after incident has closed; (e) maintaining temporary barriers, cones, signs and the like for up to 48 hours until permanent repairs have been carried out or further instructions are issued by the <i>Service Manager</i>; (f) reporting to the <i>Service Manager</i> with details of incidents and all work carried out. |

SERIES 8000: TIME CHARGE

Maintenance Teams

- Units 1 The unit of measurement shall be:
- (i) maintenance teams hour
- Measurement 2 The measurement of maintenance teams shall be the whole number of hours ordered by the *Service Manager*.
- 3 The number of hours during normal working hours shall be calculated from arrival at a depot until return to the depot excluding meal breaks, a minimum of eight hours shall be ordered by the *Service Manager*.
- Itemisation 4 Separate items shall be provided for maintenance teams in accordance with the General Principles and the following:

Group	Feature	
1	1	Maintenance teams
2	1	Stated types

- Maintenance Teams** 5 The items for maintenance teams shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) management and supervision of operatives;
- (b) reporting and record keeping;
- (c) maintenance of vehicles and equipment;
- (d) vehicles and equipment;
- (e) consumable materials;
- (f) certification and training;
- (g) skilled operatives.

People

- Units 6 The unit of measurement shall be:
(i) people hour
- Measurement 7 The measurement of people shall be the whole number of hours ordered by the *Service Manager*.
- Itemisation 8 Separate items shall be provided for people in accordance with the General Principles and the following:

Group	Feature	
1	1	People
2	1	Stated skills and trades

- People** 9 The items for people shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) wages and bonus payments;
- (b) overtime unless specifically requested by the *Service Manager*;
- (c) National Insurances, levies and taxes;
- (d) holiday and statutory contributions;
- (e) provision of small tools appropriate to each trade, protective clothing;
- (f) travelling time between home and the depot;
- (g) welfare facilities;
- (h) use of suppliers and subcontractors;
- (i) Supervision and management.

Equipment

- Units 10 The unit of measurement shall be:
- (i) equipment hour
- Measurement 11 The measurement for equipment shall be the whole number of hours ordered by the *Service Manager*.
- 12 Where equipment is required which is not incidental to other works, a minimum of four hours shall be ordered by the *Service Manager*.
- Itemisation 13 Separate items shall be provided for equipment in accordance with the General Principles and the following:

Group	Feature	
1	1	Equipment
2	1	Stated equipment or resources

- Equipment** 14 The items for equipment shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) fuel and consumables;
- (b) repairs, servicing and maintenance;
- (c) insurances and replacement;
- (d) transport to site;
- (e) use of suppliers and subcontractors;
- (f) supervision and management.

Materials

- Units 15 The unit of measurement shall be:
- (i) materials percentage adjustment
- Measurement 16 Materials required for incorporation into the works by the *Service Manager* shall be those specifically ordered by the *Service Manager*.
- 17 The percentage adjustment shall be applied to the net invoiced cost of materials delivered to the site.
- Itemisation 18 Separate items shall be provided for materials in accordance with the General Principles and the following:

Group	Feature
1	1 Materials
2	1 Percentage adjustment

- Materials** 19 The items for materials shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) ordering and taking delivery;
- (b) unloading, storing and protecting;
- (c) waste and discounts;
- (d) supervision and management.

SERIES 9000: RESTRICTED WORKING

Restricted Working

- Units 1 The unit of measurement shall be:
- (i) restrictive working hours percentage
- (ii) commencement of works number
- Measurement 2 Percentage additions shall apply to the rates and prices contained in the Task Order. The percentage additions to priced items shall only be applied to those items when work is specifically ordered by the *Service Manager* to be undertaken during the restricted hours. For the purpose of measurement Christmas Day, Boxing Day, Good Friday, Easter Monday, May Day, Spring and Summer Bank Holidays and notified public holidays shall be measured as Statutory Holidays.
- 3 Commencement of works shall only apply where the *Contractor* has achieved commencement within the specified time period.
- Itemisation 4 Separate items shall be provided for restrictive working hours in accordance with the General Principles and the following:

Group	Feature	
1	1	Restrictive working
2	1	Renewal and construction works landscape and ecology
	2	Traffic management, highways cleansing
	3	Pavements
	4	Traffic signs and road markings
	5	Time charge
3	1	Monday to Friday 09.30 to 15.30
	2	Monday to Friday 18.00 to 07.30
	3	Saturday 07.30 to 18.00
	4	Saturday 18.00 to Sunday 07.30
	5	Sunday 07.30 to 18.00
	6	Sunday 18.00 to Monday 07.30
	7	Statutory Holiday

Restricted Working Hours 5 The items for restrictive working hours shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage
- (a) all additional payments and costs associated with unproductive working due to restricted hours worked;
 - (b) shift working payments;
 - (c) all additional equipment, labour and materials costs.

Itemisation 6 Separate items shall be provided for commencement of works in accordance with the General Principles and the following:

Group	Feature	
1	1	Commencement of works
2	1	Within 24 hours of receipt of order
	2	Within 7 days of receipt of order
	3	Within 28 days of receipt of order

Commencement of Works 7 The items for commencement of works shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage
- (a) all additional payments and costs associated with complying with the requirements of the Contract;
 - (b) shift working payments;
 - (c) all additional equipment, labour and materials costs.

SECTION TWO: ALTERNATIVE SERIES

SERIES 700: PAVEMENTS

		Sub-base																						
Units	1	The unit of measurement shall be:																						
		(i)	sub-base cubic metre																					
Measurement	2	The measurement of sub-base shall be the volume of sub-base measured to the dimensions stated or quantities ordered by the <i>Service Manager</i> .																						
Itemisation	3	Separate items shall be provided for sub-base in accordance with the General Principles and the following:																						
			<table border="1"> <thead> <tr> <th>Group</th> <th>Feature</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>Each group or type of sub-base.</td> </tr> <tr> <td>2</td> <td>1</td> <td>In carriageway</td> </tr> <tr> <td>3</td> <td>1</td> <td>Not exceeding 10 cubic metres</td> </tr> <tr> <td></td> <td>2</td> <td>Exceeding 10 but not exceeding 50 cubic metres</td> </tr> <tr> <td></td> <td>3</td> <td>Exceeding 50 but not exceeding 100 cubic metres</td> </tr> <tr> <td></td> <td>4</td> <td>Exceeding 100 cubic metres</td> </tr> </tbody> </table>	Group	Feature		1	1	Each group or type of sub-base.	2	1	In carriageway	3	1	Not exceeding 10 cubic metres		2	Exceeding 10 but not exceeding 50 cubic metres		3	Exceeding 50 but not exceeding 100 cubic metres		4	Exceeding 100 cubic metres
Group	Feature																							
1	1	Each group or type of sub-base.																						
2	1	In carriageway																						
3	1	Not exceeding 10 cubic metres																						
	2	Exceeding 10 but not exceeding 50 cubic metres																						
	3	Exceeding 50 but not exceeding 100 cubic metres																						
	4	Exceeding 100 cubic metres																						
Sub-base	4	The items for sub-base shall in accordance with the Preambles to Price List General Directions include for:																						
Item coverage		(a)	trial areas and trials;																					
		(b)	making good after sampling and testing;																					
		(c)	protection of material in transit and while awaiting tipping;																					
		(d)	grading, measuring, mixing and depositing materials;																					
		(e)	spreading and compaction;																					

- (f) cleaning, preparing and working on or up to existing surfaces and features;
- (g) curing and protection;
- (h) edge support;
- (i) maintenance of surface;
- (j) taking measures to protect the subgrade, capping and sub-base from deterioration due to the ingress of water and the use of constructional plant;
- (k) taking measures to improve the subgrade, capping and sub-base from damage due to the *Contractor's* method of construction and choice of constructional plant;
- (l) shaping to cambers, falls and crowns;
- (m) provision of test certificates.

Pavement

- | | | |
|-------------|---|--|
| Units | 5 | The unit of measurement shall be: <ul style="list-style-type: none"> (i) base course, binder course and surface course
tonne (ii) coated chippings square metre |
| Measurement | 6 | The tonnage certified by the <i>Service Manager</i> shall only be the material included on delivery tickets which are incorporated in the Permanent Works. Material in excess of those ordered by the <i>Service Manager</i> material used for any other purpose shall not be included within the certified tonnage. |
| | 7 | For coated chippings the area measured shall be the top surface of the course required by dimensions or ordered by the <i>Service Manager</i> and shall exclude sloping sides or edges. No deductions shall be made for openings of 1 square metre or less. |

Group	Feature	
1	1	Pavements
2	1	Base course
	2	Binder course
	3	Surface Course
	4	Coated chippings
	5	Thin surface course
3	1	Each group or type
4	1	Stated thicknesses
5	1	In contiguous areas exceeding 500 tonnes

**Base Course,
Binder Course
and Surface
Course**

Item coverage

- 8 The items for base course, binder and surface course shall in accordance with the Preambles to Price List General Directions include for:
- (a) trial areas and trials;
 - (b) making good after sampling and testing;
 - (c) protection of material in transit and while awaiting tipping;
 - (d) designing and verifying mixes;
 - (e) grading, measuring, reclaiming, mixing and depositing materials;
 - (f) spreading and compacting;
 - (g) cutting back, saw cutting, cleaning, preparing and working on or up to existing surfaces and features;
 - (h) edge support;
 - (i) waterproof and separation membranes;
 - (j) chippings;

- (k) surface texturing;
- (l) making joints;
- (m) forming or sawing grooves, cleaning, grit blasting, priming, caulking, temporary and permanent sealing of joints;
- (n) shaping to cambers, falls, crowns and covers;
- (o) forming sockets, recesses, openings, and bays;
- (p) curing and protection;
- (q) protection and masking and unmasking or kerbs, drainage, channels, chamber covers, gully gratings, expansion joints, and the like;
- (r) maintenance of surfacing;
- (s) taking measures to protect and maintain the pavement from deterioration by the use of constructional plant and the ingress of water and other materials;
- (t) measures required for aftercare and opening the road to traffic;
- (u) painting vertical surfaces with bitumen.

Regulating

Units	9	The unit of measurement shall be: (i) regulating tonne.
Measurement	10	The tonnage certified by the <i>Service Manager</i> shall only be the material included on delivery tickets which are incorporated in the Permanent Works. Material in excess of those ordered by the <i>Service Manager</i> material used for any other purpose shall not be included within the certified tonnage.
Itemisation	11	Separate items shall be provided for regulating in accordance with the General Principles and the following:

Group	Feature	
1	1	Each group or type of regulating
2	1	Base
	2	Binder
	3	Surface Course

- Regulating**
- 12 The items for regulating shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage
- (a) base course, binder course and surface course;
 - (b) supplying authorised copies of delivery tickets.

Extra Over Asphalt Concrete Materials

- Units
- 13 The unit of measurement shall be:
- (i) extra over asphalt concrete materials tonne
- Measurement
- 14 The measurement of extra over asphalt concrete materials shall be the top surface area of the pavement ordered by the *Service Manager*.
- Itemisation
- 15 Separate items shall be provided for extra over asphalt concrete materials in accordance with the General Principles and the following:

Group	Feature	
1	1	Extra over asphalt concrete materials
2	1	For contiguous volume
	2	For hand lay with contiguous volumes
3	1	Stated volumes

- Extra Over Asphalt Concrete Materials**
- 16 The items for extra over asphalt concrete materials shall in accordance with the Preambles to Price List General Directions include for:

Item coverage (a) additional costs and resources due to stated and designated quantities.

Asphalt Reinforcement

Units 17 The unit of measurement shall be:

(i) asphalt reinforcement square metre

Measurement 18 The measurement of asphalt reinforcement shall be calculated using the top surface ordered by the *Service Manager*.

19 No deductions shall be made for opening of 1 square metre or less.

Itemisation 20 Separate items shall be provided for asphalt reinforcement in accordance with the General Principles and the following:

Group	Feature	
1	1	Asphalt reinforcement
2	1	Stated types
3	1	Not exceeding 1,000 square metres
	2	Exceeding 1,000 square metres

Asphalt Reinforcement 21 The items for asphalt reinforcement shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage (a) trial areas and trials;
- (b) spreading and roiling deposited materials;
- (c) bond or tack coat;
- (d) measures required for aftercare and opening road to traffic;
- (e) overlaps and bonding;
- (f) surface preparation and treatment shall include bonding coat;
- (g) shrinkage.

Bond or Tack Coat

- Units 22 The unit of measurement shall be:
- (i) bond or tack coat square metre.
- Measurement 23 The measurement of bond or tack coat shall be the surface area to be coated as ordered by the *Service Manager*.
- Itemisation 24 Separate items shall be provided for bond or tack coat in accordance with the General Principles and the following:

Group	Feature	
1	1	Bond or tack coat
2	1	Stated materials
3	1	Stated rates of spread

- Bond or Tack Coat** 25 The items for bond or tack coat shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) trial area and trials;
- (b) making good after sampling and testing;
- (c) designing and verifying mixes;
- (d) grading, measuring, mixing and depositing materials;
- (e) making joints;
- (f) cleaning surfaces;
- (g) protection and masking and unmasking or kerbs, drainage, channels, chamber covers, gully gratings, expansion joints, road studs, road markings and the like and obtaining clean markings;
- (h) cutting back, preparing and working on or up to adjacent faces, surfaces and features;
- (i) admixtures and additives.

Joints

- Units 26 The unit of measurement shall be:
- (i) cut back existing flexible pavement linear metre
- (ii) saw cutting flexible pavement linear metre
- Measurement 27 The measurement of joints shall be the length of work ordered by the *Service Manager*.
- 28 Cut back existing pavement shall be for work required to existing surfaces and include for saw cutting to form a vertical face. Saw cutting pavement shall only be measured as a separate item where specifically ordered by the *Service Manager*
- 29 Cut back existing pavement shall not be used for temporary joints required in day to day operations as these are deemed to be temporary works.
- Itemisation 30 Separate items shall be provided for joints in accordance with the General Principles and the following:

Group	Feature	
1	1	Joints
2	1	Cut back flexible pavement
	2	Saw cutting flexible pavement
3	1	Not exceeding 300mm wide
4	1	Not exceeding 50mm deep
	2	Exceeding 50mm but not exceeding 100mm deep

Group 3 Feature 1 shall only apply to Group 2 Feature 1.

- Cut Back Flexible Pavements**
- Item coverage 31 The items for cut back flexible pavements shall in accordance with the Preambles to Price List General Directions include for:
- (a) loading into transport, upholding the sides and keeping the earthworks free of water;
- (b) taking precautions to avoid damage to property, structures, existing sewers, drains and services;

- (c) multiple handling of excavated materials;
- (d) disposal;
- (e) coating vertical face with bitumen;
- (f) saw cut full depth.

Saw Cutting Flexible Pavements

32 The items for saw cutting flexible pavements shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) saw cutting to full depths;
- (b) coating vertical face with bitumen.

Planing (Cold Milling)

Units

33 The unit of measurement shall be:

- (i) planing square metre
- (ii) extra over planing for each increment in depth square metre
- (iii) extra over planing for haulage of planings to *Service Manager's* store tonne

Measurement

- 34 The measurement of planing shall be the quantities ordered by the *Service Manager*. No deductions shall be made for openings of 1 square metres or less.
- 35 The measurement for extra over planing for each increment in depth shall be for each additional stated increment ordered by the *Service Manager*.
- 36 The measurement for extra over planing for haulage of planings to *Service Manager's* store shall be the tonnage of planed material supported by certified delivery tickets.

Group	Feature	
1	1	Planing flexible surfacing
2	1	Stated thicknesses or depths

3	1	Exceeding 250 square metres but not exceeding 1,000 square metres
	2	Exceeding 1,000 square metres but not exceeding 2,000 square metres
	3	Exceeding 2,000 square metres but not exceeding 4,000 square metres
	4	Exceeding 4,000 square metres

Note: For each item of planing an adjustment item shall be provided for increases in depth for each variation as appropriate.

- Itemisation** 37 Separate items shall be provided for extra over planing for haulage of planings to *Service Manager's* store in accordance with the General Principles and the following:

Group	Feature	
1	1	Extra over planing for haulage of planings to Service Manager's store
2	1	Not exceeding 5 kilometres from site
	2	Exceeding 5 kilometres but not exceeding 15 kilometres from site
	3	Exceeding 15 kilometres but not exceeding 25 kilometres from site
	4	Exceeding 25 kilometres but not exceeding 35 kilometres from site

- Planing** 38 The items for planing shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage**
- (a) re-shaping and rolling;
 - (b) shaping to cambers, falls and crowns;
 - (c) multiple handling of material;
 - (d) loading into transport;
 - (e) working around drainage channels, covers, gully gratings, expansion joints and the like;

- (f) ramps;
- (g) removing road studs for re-use;
- (h) surface preparation and cleaning.

**Extra Over
Planing for
Haulage of
Planings to
Service
Manager’s store**

39 The items for extra planing for haulage of planings to *Service Manager’s* store shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) multiple handling of material;
- (b) loading into transport;
- (c) deposition of material.

Surface Treatments

Units

40 The unit of measurement shall be:

- (i) establishment of equipment number
- (ii) surface treatments square metre

Group	Feature	
1	1	Surface treatments
2	1	Stated types
3	1	Establishment
	2	Not exceeding 100 square metres
	3	Exceeding 100 square metres but not exceeding 500 square metres
	4	Exceeding 500 square metres

Note: An additional item shall be measured for different stated colours in lieu of natural colours.

Establishment 41 The items for establishment shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage
- (a) provision and setting up equipment on sites;
 - (b) maintaining equipment;
 - (c) removing equipment upon completion.

Surface Treatments 42 The items for surface treatments shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage
- (a) provision and supplying trial areas, trials, samples and site visit;
 - (b) making good after sampling;
 - (c) storing, handling or materials;
 - (d) spreading and rolling deposited materials;
 - (e) assessment of the site, designing and verifying of the surface treatment;
 - (f) measures required for aftercare and opening to traffic.

Surface Dressing (Annual Programme)

Units 43 The unit of measurement shall be:

- (i) surface dressing square metre

Measurement 44 The measurement of surface dressing shall be the area of the top surface of the work ordered by the *Service Manager*.

45 No deductions shall be made for openings of 1 square metre or less.

46 Surface dressing shall be carried out as an annual programme of work.

Itemisation 47 Separate items shall be provided for surface dressing in accordance with the General Principles and the following:

Group	Feature	
1	1	Surface dressing
2	1	Stated types and specifications
	2	Extra over for surface dressing for stated rates of spread or stated PSV stone or speed limits or narrow width roads

- Surface Dressing** 48 The items for surface dressing shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) provision and supplying trial areas, trials, samples and site visit;
- (b) making good after sampling;
- (c) storing, handling or materials;
- (d) spreading and rolling deposited materials;
- (e) removal of surplus chippings;
- (f) protection of surface dressing.

Carriageway Patching

- Units 49 The unit of measurement shall be:
- (i) carriageway patching square metre
- (ii) overlay patching tonne
- Measurement 50 Carriageway patching shall be measured for repairs to carriageways instructed by the *Service Manager*.
- 51 The measurement of carriageway patching shall be the area of the top surface ordered by the *Service Manager*.
- 52 The measurement of overlay patching shall be the approved and certified tonnage of materials ordered by the *Service Manager*.
- Itemisation 53 Separate items shall be provided for carriageway patching and overlay patching in accordance with the General Principles and the following

Group	Feature	
1	1	Carriageway patching
2	1	Hand patching repairs
	2	Hand/planer patching repairs
	3	Machine patching repairs
	4	Extra over for stated variations
3	1	Stated materials, thicknesses or depths

4	1	Stated aggregated quantities
---	---	------------------------------

Carriageway Patching and Overlay Patching

Item coverage

- 54 The items for carriageway patching and overlay patching shall in accordance with the Preambles to Price List General Directions include for:
- (a) determination of the extent of the patching or volumes and agreement with the *Service Manager*;
 - (b) base course, binder course and surface course;
 - (c) excavation of unacceptable and hard material;
 - (d) disposal of surplus materials;
 - (e) scarifying and planing;
 - (f) saw cutting and forming joints;
 - (g) coating vertical faces with bitumen;
 - (h) tack coat and bond coat;
 - (i) bringing to correct levels and surface regularity following settlement;
 - (j) removal of loose materials and water;
 - (k) temporary road markings.

Carriageway Reinstatement

Units

- 55 The unit of measurement shall be:
- (i) carriageway reinstatement square metre
 - (ii) sub-base in carriageway reinstatement cubic metres

Measurement

- 56 Carriageway reinstatement shall be measured for reinstatement to drainage trenches, trial holes and the like instructed by the *Service Manager*.
- 57 The measurement of carriageway reinstatement shall be the area of the top surface ordered by the *Service Manager*.
- 58 The measurement of sub-base in carriageway reinstatement shall be the volume of sub-base measured to the dimensions stated or quantities ordered by the *Service Manager*.

Itemisation 59 Separate items shall be provided for carriageway reinstatement in accordance with the General Principles and the following:

Group	Feature	
1	1	Carriageway reinstatement
2	1	Sub-base in carriageway reinstatement
	2	Reinstatement of flexible carriageway
	3	Extra over for stated variations
3	1	Stated materials, thicknesses or depths
4	1	Stated aggregated quantities

Note: Aggregated quantities shall not apply for sub-base in carriageway reinstatement.

Carriageway Reinstatement 60 The items for carriageway reinstatement shall in accordance with the Preambles to Price List General Directions include for:

Item coverage

- (a) determination of the extent of the reinstatement and agreement with the *Service Manager*;
- (b) base binder course and surface course;
- (c) excavation of unacceptable and hard material;
- (d) disposal of surplus materials;
- (e) scarifying and planing;
- (f) saw cutting and forming joints;
- (g) coating vertical faces with bitumen;
- (h) tack coat and bond coat;
- (i) bringing to correct levels and surface regularity following settlement;
- (j) removal of loose materials and water;
- (k) temporary road markings.

Carriageway Haunching

- Units 61 The unit of measurement shall be:
- (i) carriageway haunching square metre
- Measurement 62 The measurement of carriageway haunching shall be the area of the top surface ordered by the *Service Manager*.
- Itemisation 63 Separate items shall be provided for carriageway haunching in accordance with the General Principles and the following:

Group	Feature	
1	1	Haunch repairs to existing carriageway
2	1	Stated materials, thicknesses or depths
3	1	Stated aggregated quantities

- Carriageway Haunching** 64 The items for carriageway haunching shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) Sub-base, formation and sub-formation;
- (b) base course, binder course and surface course;
- (c) excavation of unacceptable and hard material;
- (d) disposal of surplus materials;
- (e) scarifying and planing;
- (f) saw cutting and forming joints;
- (g) coating vertical faces with bitumen;
- (h) tack coat and bond coat;
- (i) bringing to correct levels and surface regularity following settlement;
- (j) temporary road markings.

SERIES 6800: SERVICE ACTIVITY – WINTER MAINTENANCE

Winter Maintenance Service

- Units 1 The unit of measurement shall be:
 - (i) winter maintenance service month
- Measurement 2 The measurement of winter maintenance service shall be for the whole period required by the *Service Manager*. Stated seasonal periods shall add to a sum of twelve months duration per year.
- Itemisation 3 Separate items shall be provided for winter maintenance service in accordance with the General Principles and the following:

Group	Feature
1	1 Basic facility
2	1 Stated seasonal periods

- Winter Maintenance Service** 4 The items for winter maintenance service shall in accordance with the Preambles to Price List General Directions include for:
 - (a) providing all measures, equipment, resources and arrangements necessary to ensure compliance with the specification, service plan and service information including design of salt routes, design of the snow clearing routes, provision and management of salt stocks and the provision of equipment at each designated loading point provided by the *Contractor*;
 - (b) all costs of equipment to vehicles and plant with ploughs and inserts, blowers and throwers;
 - (c) routine maintenance operations to the *Employer's* snow ploughs, during and outside seasonal periods;
 - (d) training of operatives with operational vehicles with relevant certification;
 - (e) protection of *Employer's* and *Contractor's* equipment;
 - (f) 24 hour availability of equipment to a serviceable condition;
 - (g) provision of a responsible person to receive the *Service Manager's* instructions on winter maintenance and to ensure satisfactory compliance with any such
- Item coverage

- instructions;
- (h) provision of facilities to Depots owned by the *Employer* and other contractors acting on instructions from the *Employer*;
- (i) provision of specified communication facilities in *Contractor's* operational vehicles;
- (j) reports to the *Service Manager* on the condition of equipment provided by the *Employer*;
- (k) arrangements to ensure operatives and equipment are available to meet specified response times;
- (l) provision of servicing arrangements with suitable facilities;
- (m) repairs, servicing, inspecting and testing of equipment in accordance with the works information;
- (n) providing consumables, replacement parts and materials for *Employer's* equipment;
- (o) calibration of spreading equipment prior to the seasonal operation period and providing a Certificate of Calibration to the *Service Manager*;
- (p) vehicle tracking and location devices;
- (q) vehicles and equipment specified within the Service Information.

Precautionary Salting

Units	5	The unit of measurement shall be: <ul style="list-style-type: none"> (i) precautionary salting month
Measurement	6	The measurement of precautionary salting shall be for the whole month ordered by the <i>Service Manager</i> .
Itemisation	7	Separate items shall be provided for precautionary salting or gritting in accordance with the General Principles and the following:

Group	Feature	
1	1	Precautionary salting
2	1	Primary routes
	2	Secondary routes

Precautionary Salting

Item coverage

- 8 The items for precautionary salting shall in accordance with the Preambles to Price List General Directions include for:
- (a) provision of vehicles and equipment;
 - (b) provision and testing of salt or grit materials;
 - (c) ploughing and spreading within specified timescales;
 - (d) moisture content monitoring;
 - (e) emptying vehicles of surplus materials and returning to store for re-use;
 - (f) cleaning of *Contractor's* and *Employer's* vehicles and equipment upon completion of operations;
 - (g) notifying the *Service Manager* of any faults with the *Contractor's* and *Employer's* vehicles and equipment;
 - (h) reports to the *Service Manager* together with records of the location, timing and work carried out during the salting or gritting operations.

Winter Service Duties

Units

- 9 The unit of measurement shall be:
- (i) operatives for winter service duties hour
 - (ii) equipment for winter service hour
 - (iii) materials for winter service tonne

Measurement

- 10 The measurement for winter service duties shall be the quantities ordered by the *Service Manager*.

Itemisation

- 11 Separate items shall be provided for winter service duties in accordance with the General Principles and the following:

Group	Feature	
1	1	Operatives for winter service duties
	2	Equipment for winter service duties
	3	Materials for winter service duties
2	1	Stated resources

Operatives for Winter Maintenance Duties

Item coverage

12 The items for operatives for winter maintenance duties shall in accordance with the Preambles to Price List General Directions include for:

- (a) wages and bonus payments;
- (b) overtime unless specifically requested by the *Service Manager*;
- (c) National Insurances, levies and taxes;
- (d) holiday and statutory contributions;
- (e) provision of small tools appropriate to each trade, protective clothing;
- (f) travelling time, transport to the site;
- (g) welfare facilities;
- (h) use of suppliers and subcontractors;
- (i) supervision and management.

Equipment for Winter Service Duties

Item coverage

13 The items for equipment for winter service duties shall in accordance with the Preambles to Price List General Directions include for:

- (a) fuel and consumables;
- (b) repairs, servicing and maintenance;
- (c) insurances and replacement;
- (d) transport to site;
- (e) use of suppliers and subcontractors;
- (f) supervision and management.

**Materials for
Winter Service
Duties**

Item coverage

- 14 The items for materials for winter service duties shall in accordance with the Preambles to Price List General Directions include for:
- (a) ordering and taking delivery;
 - (b) providing materials;
 - (c) unloading, storing and protecting;
 - (d) waste and discounts;
 - (e) supervision and management.

SERIES 7000: LANDSCAPE MAINTENANCE

Landscape Maintenance

- Units 1 The unit of measurement shall be:
- (i) hedge trimming, weed spraying, swath cutting kilometre
 - (ii) hand held hedge trimming, footway weed spraying, total residual herbicide square metre
 - (iii) visibility cutting number

Measurement 2 The measurement of landscape maintenance shall be quantities ordered by the *Service Manager*.

Itemisation 3 Separate items shall be provided for landscape maintenance in accordance with the General Principles and the following:

Group	Feature	
1	1	Hedge trimming
	2	Weed spraying
	3	Total residual herbicide
	4	Swath cutting
	5	Visibility cutting
2	1	Stated specifications
3	1	Stated locations or quantities

Landscape Maintenance 4 The items for landscape maintenance shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage
- (a) providing all measures, equipment and resources necessary to ensure compliance with the specification;
 - (b) reports to the *Service Manager*;
 - (c) collecting data and maintaining the inventory.

SERIES 7100: DRAINAGE CLEANSING

Drainage Cleansing

- Units 1 The unit of measurement shall be:
 - (i) gulley, yard gulley, outlet, catchpit or manhole emptying number
 - (ii) linear drainage systems linear metre
- Measurement 2 The measurement of drainage cleansing shall be the numbers or linear metres ordered by the *Service Manager*.
- Itemisation 3 Separate items shall be provided for drainage cleansing in accordance with the General Principles and the following:

Group	Feature	
1	1	Gulley emptying and the like
	2	Linear drainage systems
2	1	Stated quantities
	2	As part of a programme

- Drainage Cleansing** 4 The items for drainage cleansing shall in accordance with the Preambles to Price List General Directions include for:
 - (a) providing all measures, equipment and resources necessary to ensure compliance with the specification;
 - (b) reports to the *Service Manager*;
 - (c) processing of waste and disposal;
 - (d) collecting data and maintaining the inventory.
- Item coverage

Reactive Drainage Cleansing Service

- Units 5 The unit of measurement shall be:
 - (i) reactive cleansing of surface water drainage hour

- (ii) disposal of waste tonne
- Measurement 6 The measurement of reactive cleansing of surface water drainage shall be the hours and quantities ordered by the *Service Manager*.
- 7 The measurement of disposal of waste shall be the authorised and certified weight of materials ordered by the *Service Manager*.
- Itemisation 8 Separate items shall be provided for reactive drainage cleansing service in accordance with the General Principles and the following:

Group	Feature	
1	1	Reactive drainage cleansing service
2	1	Stated resources

- Reactive Drainage Cleansing Service**
- 9 The items for reactive drainage cleansing service shall in accordance with the Preambles to Task Order Price List General Directions include for:
 - (a) providing all measures, equipment and resources necessary to ensure compliance with the specification;
 - (b) reports to the *Service Manager*;
 - (c) collecting data and maintaining the inventory.
- Item coverage
- Disposal of Material**
- 10 The items for disposal of material shall in accordance with the Preambles to Price List General Directions include for:
 - (a) haulage and deposition in tips off Site provided by the *Contractor*;
 - (b) multiple handling of material;
 - (c) additional processing on or off site;
 - (d) landfill tax.
- Item coverage

SERIES 7200: SIGN CLEANING

Sign Cleaning

- Units 1 The unit of measurement shall be:
 - (i) sign cleaning number
- Measurement 2 The measurement of sign cleaning shall be the numbers ordered by the *Service Manager*.
- Itemisation 3 Separate items shall be provided for sign cleaning in accordance with the General Principles and the following:

Group	Feature	
1	1	Programmed sign cleaning
	2	Extra over for small quantities
2	1	Stated types and sizes

- Sign Cleaning** 4 The items for sign cleaning shall in accordance with the Preambles to Price List General Directions include for:
 - (a) providing all measures, equipment and resources necessary to ensure compliance with the specification;
 - (b) reports to the *Service Manager*;
 - (c) collecting data and maintaining the inventory;
 - (d) disposal of surplus and waste materials.
- Item coverage

SERIES 7300: MINOR REPAIRS

Minor Repairs

- Units 1 The unit of measurement shall be:
 - (i) minor repairs number
- Measurement 2 The measurement of minor repairs shall be numbers ordered by the *Service Manager*.
- Itemisation 3 Separate items shall be provided for minor repairs in accordance with the General Principles and the following:

Group	Feature	
1	1	Minor repairs
	2	Extra over for response times
2	1	Stated types or times

- Minor Repairs** 4 The items for minor repairs shall in accordance with the Preambles to Price List General Directions include for:
 - (a) providing all measures, equipment and resources necessary to ensure compliance with the specification;
 - (b) reports to the *Service Manager*;
 - (c) collecting data and maintaining the inventory;
 - (d) disposal of surplus and waste materials.
- Item coverage

SECTION THREE: OPTIONAL SERIES

SERIES 1300: ROAD LIGHTING COLUMNS AND BRACKETS

Lighting Columns

- Units 1 The unit of measurement shall be:
- (i) lighting columns number
- Measurement 2 The measurement of lighting columns shall be the quantities ordered by the *Service Manager*.
- Itemisation 3 Separate items shall be provided for lighting columns in accordance with the General Principles and the following:

Group	Feature
1	1 Lighting columns
2	1 Stated heights or specifications

Note: Foundations for lighting columns shall be measured separately.

- Lighting Columns** 4 The items for lighting columns shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) design and certificates, data and drawings, obtaining approvals;
- (b) rivets, nuts, bolts, clamps and the like;
- (c) drilling, forming holes and anchorage assemblies;
- (d) protective system;
- (e) columns, electrical equipment, wiring and making connections;
- (f) plugging entry slots, doors, locks and keys, conduits, bends tees and the like;
- (g) threading cable through ducts, conduits and the like;

- (h) complying with wiring regulations and earthing, test certificates and the like;
- (i) backboards, fixings, grommets, spacers and the like;
- (j) notices, recording and supply of record drawings;
- (k) fixing to structures and foundations including attachment systems.

Erect Only Lighting Columns

- Units 5 The unit of measurement shall be:
- (i) erect only lighting columns number
- Measurement 6 The measurement of erect only lighting columns shall be the quantities ordered by the *Service Manager*.
- Itemisation 7 Separate items shall be provided for erect only lighting columns in accordance with the General Principles and the following:

Group	Feature	
1	1	Erect only lighting columns
2	1	Stated heights or specifications

Note: Foundations for lighting columns shall be measured separately.

- Erect Only Lighting Columns**
- Item coverage 8 The items for erect only lighting columns shall in accordance with the Preambles to Price List General Directions include for:
- (a) design and certificates, data and drawings, obtaining approvals;
 - (b) rivets, nuts, bolts, clamps and the like;
 - (c) drilling, forming holes and anchorage assemblies;
 - (d) protective system;
 - (e) electrical equipment, wiring and making connections;

- (f) plugging entry slots, doors, locks and keys, conduits, bends tees and the like;
- (g) threading cable through ducts, conduits and the like;
- (h) complying with wiring regulations and earthing, test certificates and the like;
- (i) backboards, fixings, grommets, spacers and the like;
- (j) notices, recording and supply of record drawings;
- (k) fixing to structures and foundations including attachment systems.

Foundations

- Units 9 The unit of measurement shall be:
- (i) foundations within specified volume number
 - (ii) foundations cubic metre
- Measurement 10 The measurement of foundations shall be the numbers or volumes ordered by the *Service Manager*.
- Itemisation 11 Separate items shall be provided for foundations in accordance with the General Principles and the following:

Group	Feature	
1	1	Foundations
2	1	Stated specifications
	2	Stated volumes

- Foundations** 12 The items for foundations shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) excavation of acceptable or unacceptable material;
- (b) disposal of materials;
- (c) in-situ concrete and formwork;
- (d) bedding, grouting and filling;

- (e) backfilling and compaction;
- (f) reinstatement of verge surfaces.

Bracket Arms

- Units 13 The unit of measurement shall be:
 - (i) bracket arms number
- Measurement 14 The measurement for bracket arms shall be the quantities ordered by the *Service Manager*.
- Itemisation 15 Separate items shall be provided for bracket arms in accordance with the General Principles and the following:

Group	Feature
1	1 Bracket arms
2	1 Stated specifications

- Bracket Arms** 16 The items for bracket arms shall in accordance with the Preambles to Price List General Directions include for:
 - (a) design and certificates, data and drawings, obtaining approvals;
 - (b) rivets, nuts, bolts, clamps and the like;
 - (c) drilling, forming holes and anchorage assemblies;
 - (d) protective system;
 - (e) electrical equipment, wiring and making connections;
 - (f) plugging entry slots, doors, locks and keys, conduits, bends tees and the like;
 - (g) threading cable through ducts, conduits and the like;
 - (h) complying with wiring regulations and earthing, test certificates and the like;
 - (i) backboards, fixings, grommets, spacers and the like;
 - (j) notices, recording and supply of record drawings;
- Item coverage

- (k) fixing to structures and foundations including attachment systems.

Painting of Columns

- Units 17 The unit of measurement shall be:
 - (i) painting of columns number
 - (ii) numbering of columns number
- Measurement 18 The measurement for painting of columns shall be the quantities ordered by the *Service Manager*.
- 19 The measurement of numbering of columns shall include for multiple digits as one number.
- Itemisation 20 Separate items shall be provided for painting of columns in accordance with the General Principles and the following:

Group	Feature	
1	1	Painting of columns
	2	Numbering of columns
2	1	Stated specifications

- Painting of Columns** 21 The items for painting of columns shall in accordance with the Preambles to Price List General Directions include for:
 - Item coverage (a) preparation of surfaces;
 - (b) marking to correct position;
 - (c) painting, stencils or vinyl application;
 - (d) cleaning on completion;
 - (e) notices, recording and supply of records.

Re-align Column or Post

- Units 22 The unit of measurement shall be:
- (i) re-align column or post number
- Measurement 23 The measurement of re-align column or post shall be the quantities ordered by the *Service Manager*.
- Itemisation 24 Separate items shall be provided for re-align column or post in accordance with the General Principles and the following:

Group	Featured	
1	1	Re-align columns or posts
2	1	Stated heights or specifications

Note: Foundations for lighting columns shall be measured separately.

- Re-align Columns or Posts** 25 The items for re-align columns or posts shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) moving to upright position;
- (b) making good surfaces;
- (c) reinstating surfaces and foundations;
- (d) reinstate protective system;
- (e) notices and records of repairs.

SERIES 1400: ELECTRICAL WORK FOR ROAD LIGHTING AND TRAFFIC SIGNS

Location of Existing Cables

- Units 1 The unit of measurement shall be:
- (i) location of existing cables hour
- Measurement 2 The measurement of location of existing cables shall be the hours ordered by the *Service Manager*.
- Itemisation 3 Separate items shall be provided for location of existing cables in accordance with the General Principles and the following:

Group	Feature	
1	1	Location of exiting cables
2	1	Stated resources

- Location of Existing Cables** 4 The items for location of exiting cables shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) marking the cable runs on the ground;
- (b) pegging and removal;
- (c) maintaining location system;
- (d) providing insulation integrity results to the *Service Manager*;
- (e) providing tests, records and reports to the *Service Manager*.

Trenching

- Units 5 The unit of measurement shall be:
- (i) trenching linear metre
- Measurement 6 The measurement of trenching shall be the quantities ordered by the *Service Manager*.

Itemisation 7 Separate items shall be provided for trenching in accordance with the General Principles and the following:

Group	Feature	
1	1	Trenching
2	1	In verge
	2	In footway
3	1	Not exceeding 0.75m deep
	2	Exceeding 0.75 but not exceeding 1.00m deep
	3	Exceeding 1.00 but not exceeding 1.50m deep

Note: Extra over items shall be provided for backfilling with concrete bed and surround or continuous lengths not exceeding 100 metres.

Trenching 8 The items for trenching shall in accordance with the Preambles to Price List General Directions include for:

- Item coverage
- (a) excavation unacceptable or unacceptable materials;
 - (b) locating, working around and supporting exiting services and the like;
 - (c) trimming, levelling and compaction;
 - (d) bedding, backfilling and covering;
 - (e) disposal of materials;
 - (f) marking tape and the like;
 - (g) reinstatement of unpaved surfaces;
 - (h) reports and site records to the *Service Manager*.

Cables, Joints and Terminations

- Units 9 The unit of measurement shall be:
- (i) cable in trenches or ducts linear metre
- (ii) joint or terminations number
- Measurement 10 The measurement for cables, joints or terminations shall be the quantities ordered by the *Service Manager*.
- Itemisation 11 Separate items shall be provided for cables, joints or terminations in accordance with the General Principles and the following:

Group	Feature	
1	1	Cable in trenches or ducts
	2	Removal of cable
	3	Cable joint
	4	Termination joint
2	1	Stated specifications

- Cables, Joints and Terminations** 12 The items for cables, joints and terminations shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) preparing, stripping and cleaning;
- (b) cables, connectors, clamps, terminals, blocks and the like;
- (c) bonding, jointing, numbering and lettering;
- (d) complying with wiring regulations;
- (e) protection, curing and support of joints;
- (f) markers, marker blocks, tape, sleeves and the like;
- (g) commissioning;
- (h) reports and site records to the *Service Manager*.

Lanterns and Other Components

- Units 13 The unit of measurement shall be:
- (i) lanterns and other components number
- Measurement 14 The measurement for lanterns and other components shall be the quantities ordered by the *Service Manager*.
- 15 The measurement for lanterns and other components shall be for fixing only – the cost of the component shall be measured separately.
- Itemisation 16 Separate items shall be provided for lanterns and other components in accordance with the General Principles and the following:

Group	Feature	
1	1	Lanterns and other components
2	1	Stated specifications

- Lanterns and Other Components** 17 The items for lanterns and other components shall in accordance with the Preambles to Price List General Directions include for:
- Item coverage (a) taking delivery, unpacking and checking;
- (b) fixing with supplied fixings in accordance with manufacturers recommendations;
- (c) disposal of surplus materials;
- (d) complying with wiring regulations;
- (e) protection of components;
- (f) marking and the like;
- (g) commissioning;
- (h) reports and site records to the *Service Manager*.

Inspections, Bulk Lamp Change and Clean

- Units 18 The unit of measurement shall be:
- (i) inspections, bulk lamp change and clean number
- Measurement 19 The measurement for inspections, bulk lamp change and clean shall be the quantities ordered by the *Service Manager*.
- 20 The measurement of components shall be for fixing only – the cost of lamps shall be measured separately.
- Itemisation 21 Separate items shall be provided for inspections, bulk lamp change and clean in accordance with the General Principles and the following:

Group	Feature	
1	1	Inspect and clean lantern
	2	Remove lamp, clean lantern and fix lamp
2	1	As part of programme
3	1	Stated specifications and situations

- Inspections, Bulk Lamp Change and Clean**
- Item coverage 22 The items for inspections, bulk lamp change and clean shall in accordance with the Preambles to Price List General Directions include for:
- (a) taking delivery, unpacking and checking;
- (b) fixing with supplied fixings in accordance with manufacturers recommendations;
- (c) disposal of surplus materials;
- (d) complying with wiring regulations;
- (e) protection of components;
- (f) marking and the like;
- (g) commissioning;
- (h) reports and site records to the *Service Manager*.

Testing and Inspections

- Units 23 The unit of measurement shall be:
 - (i) testing and inspections number
- Measurement 24 The measurement for testing and inspections shall be the quantities ordered by the *Service Manager*.
- Itemisation 25 Separate items shall be provided for testing and inspections in accordance with the General Principles and the following:

Group	Feature	
1	1	Electrical testing
	2	Structural inspection
	3	Structural integrity test
2	1	Stated specifications and situations

- Testing and Inspections** 26 The items for testing and inspections shall in accordance with the Preambles to Price List General Directions include for:
 - Item coverage (a) setting up test equipment;
 - (b) protection of components;
 - (c) marking and the like;
 - (d) recording results;
 - (e) reports and site records to the *Service Manager*.

Response Times

- Units 27 The unit of measurement shall be:
 - (i) response times number
- Measurement 28 The measurement for response times shall be the quantities ordered by the *Service Manager*.

Itemisation 29 Separate items shall be provided for response times in accordance with the General Principles and the following:

Group	Feature	
1	1	Response times
2	1	Stated responses

Response Times 30 The items for response times shall in accordance with the Preambles to Price List General Directions include for:

Item coverage (a) any additional resources required to comply with the response required by the *Service Manager*.

Cost Reimbursable

Units 31 The unit of measurement shall be:

(i) electrical materials, disconnection, connection or transfers percentage adjustment

Measurement 32 Cost reimbursable items for electrical materials, disconnection, connection or transfers required for electrical work shall be those specifically requested and approved by the *Service Manager*.

33 The percentage adjustment shall be applied to the net invoiced cost of electrical materials, disconnections, connections or transfers approved by the *Service Manager*.

Itemisation 34 Separate items shall be provided for materials in accordance with the General Principles and the following:

Group	Feature	
1	1	Electrical materials
	2	Electrical disconnection, connection or transfers
2	1	Percentage adjustment

Cost Reimbursable	35	The items for cost reimbursable shall in accordance with the Preambles to Price List General Directions include for:
Item coverage	(a)	ordering and arranging delivery;
	(b)	unloading, storing and protecting;
	(c)	waste and discounts;
	(d)	programming into the works, supervision and management.

ACKNOWLEDGEMENTS

This first edition of the HMEP Price List has drawn on the experiences of both Clienting authorities (represented by members of the Association of Directors of Environment, Economy, Planning and Transportation (ADEPT)) and Contractors (represented by members of the Highways Term Maintenance Association (HTMA)) who provide the Service. The resulting Price List was developed by a working group comprising members of ADEPT and HTMA and reviewed by a Peer group comprising Local Highway Authority Client and Procurement officers on 27th February 2015. The resulting Price List was determined to meet the needs of those attending with many aspects of the new Price List mirroring the methodology currently adopted within the wider highways sector.

HMEP would like to extend its thanks to all those involved in the development of its Price List to deliver efficiency savings within the highways maintenance sector.

HMEP PRICE LIST WORKING GROUP

The HMEP Programme Board would like to acknowledge the help and support it has received from those listed below when preparing its Price List:

Matthew Lugg OBE	HMEP Advocate
Paul Davis	Association of Directors of Environment, Economy, Planning and Transportation (ADEPT)
Gary Thompson	HMEP Project Manager
David Whitton	ADEPT
Keith Gale	ADEPT
Steve Ashley	Highways Term Maintenance Association (HTMA)
David Binding	HTMA
Davis Doxsey	HTMA
Doug Ives	HTMA
Lars Stapleton	HTMA

and to extend thanks to the Peer Review Group comprising officers from the following authorities:

Telford & Wrekin Council	Central Bedfordshire Council	North Somerset Council
Warwickshire County Council	Solihull Metropolitan Council	Surrey County Council
Bristol City Council	Gloucestershire County Council	