

Category Management Pavement Framework

Schedule of Rates

Method of Measurement

SCHEDULE OF RATES
CATEGORY MANAGEMENT PAVEMENTS & CONCRETE
FRAMEWORK
METHOD OF MEASUREMENT
CONTENTS AMENDMENT SHEET

Amend. No.	Issue Date	Amendments	Initials	Date
0	September 17	First Issue	MB	
1	September 17	Traffic Management removed from item coverage for Surface Treatment	MB	26/9/17
2	Nov 17	Paragraph 3(iii) amended in Preambles to Schedule of Rates	MB	1/11/17
3	Nov 17	1 st Paragraph of 'Cold Milling' item on page 21 deleted	MB	7/11/17
3	Nov 17	'Repairs and Patching' item on page 22 deleted	MB	7/11/17

**CATEGORY MANAGEMENT PAVEMENTS & CONCRETE FRAMEWORK – SCHEDULE
OF RATES**

METHOD OF MEASUREMENT

Contents	Page
Preamble to Schedule of Rates	4
Schedule of Pages and Relevant Publication Dates	11
Amendments to Chapter IV of the Method of Measurement	14

Preambles to Schedule of Rates

General Directions

- 1 The Schedule of Rates has been prepared in accordance with the Method of Measurement for Highway Works published by The Stationery Office as Section 1 of Volume 4 of the Manual of Contract Documents for Highway Works. The relevant publication date of each page of the Method of Measurement for Highway Works is given in the Schedule of Pages and Relevant Publication Dates.

- 2 (05/01) In the Schedule of Rates the sub-headings and item descriptions identify the work covered by the respective items, read in conjunction with the matters listed against the relevant marginal headings "Item coverage" in Chapter IV of the Method of Measurement for Highway Works, these Preambles and the amendments to the Method of Measurement immediately following these Preambles. The nature and extent of the work is to be ascertained by reference to the Drawings, Specification and Conditions of Contract. The rates and prices entered in the Schedule of Rates shall be deemed to be the full inclusive value of the work covered by the several items including the following, unless expressly stated otherwise:
 - (i) Labour and costs in connection therewith.
 - (ii) The supply of materials, goods, storage and costs in connection therewith including delivery to Site. Taking delivery of materials and goods supplied by others, unloading, storage, and costs in connection therewith.
 - (iii) Plant and costs in connection therewith.
 - (iv) Fixing, erecting and installing or placing of materials and goods in position.
 - (v) Temporary Works.
 - (vi) The effect on the phasing of the Works or any element of the Works to the extent set forth or reasonably implied in the documents on which the tender is based.
 - (vii) General obligations, liabilities and risks involved in the execution of the Works set forth or reasonably implied in the documents on which the tender is based.
 - (viii) Establishment charges, overheads and profit.
 - (ix) Waste.

	(x)	Testing carried out by the Contractor in accordance with the particular requirements of Appendix 1/5 including supplying results of tests, reports and certificates.
	(xi)	Supply and delivery of samples to the Overseeing Organisation in accordance with the particular requirements of Appendix 1/6.
	(xii)	Checking, inspecting, examining, measuring and verifying goods, materials and workmanship including supplying results, reports and certificates.
	(xiii)	Attendance and transport for sampling and testing carried out by the Overseeing Organisation.
	(xiv)	Complying with Quality Assurance requirements of the contract and providing certificates of conformity.
	(xv)	Preparation and supply of detailed working drawings.
	(xvi)	Awaiting approvals and consent.
	(xvii)	Where stipulated complying with the particular requirements of Appendix 1/24.
	(xviii)	All requirements in relation to Preliminary items as required by the contractor
	(xix)	All requirements in relation to the Principal Contractor role in accordance with the CDM Regulations 2015 and any amendment thereof
	(xx)	supervision, management, programming and the like to provide the Works;
Measurement	3	<p>(i) The measurement of work shall be computed net from the dimensions stated in the Contract unless otherwise stated in the Method of Measurement.</p> <p>(ii) (11/06) Where the tender documents specify the Type of Pavement to be constructed then the measurement of work shall be based upon the thinnest pavement construction and surfacing over structures permitted by the Contract for that Type of Pavement. Where the tender documents provide for the Contractor to select the type of safety barrier, pavement or buried structure (where the structure is not within Designated Outlines) to be constructed then the measurement of all work in each area so affected shall be based upon the thinnest pavement construction and surfacing over</p>

structures permitted by the Contract in that area for the particular type of safety barrier, pavement or buried structure the Contractor has elected to construct.

- (iii) In the case of the Series 700 Pavement items, the 'Operational Area' specified within the Schedule of Rates is the quantity of surface area or volume of material to be priced and is listed in the form of bandings for the relevant quantity to be applied. The applicable 'Operational Area' shall be computed cumulatively for a Works Contract.

Pricing of Items

- 4 Each individual item shall have a rate or price entered against it. Rates and prices shall be expressed to two decimal places.

Alternative Specified Materials, Designs and Options Within Types of Pavement

- 5 Where in the Contract a choice of alternatives is permitted:
 - (i) the description billed and the rates and prices inserted shall be deemed to cover any of the permitted alternative materials or designs the Contractor may elect to use;
 - (ii) and where separate Schedule of Rates are provided within Series 600: Earthworks for each Type of Pavement permitted by the Contract the rates and prices inserted in respect of the earthworks for the particular Type of Pavement shall be deemed to cover the earthworks for any inherent permitted option within the Type of Pavement elected to be constructed by the Contractor;
 - (iii) and where separate Schedule of Rates are provided within Series 700: Pavements for each Type of Pavement permitted by the Contract the rates and prices inserted in respect of the particular Type of Pavement shall also be deemed to cover any inherent permitted option within the Type of Pavement elected to be constructed by the Contractor.

In all cases the rates and prices inserted in all Series of the Schedule of Rates 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 Contractor.

Privately and Publicly Owned Services or Supplies

- 6 The information in the Contract as to the whereabouts of existing services and mains is believed to be correct but the Contractor shall not be

relieved thereby of his obligations under the Contract. The Contractor shall include in his 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 Works, obtaining the written consent of the appropriate authority to interrupt the service or supply and for keeping the Overseeing Organisation informed of all arrangements he makes with the owners of privately owned services or supplies, Statutory Undertakers and Public Authorities as appropriate.

Labours

- 7 Labours in connection with Nominated Sub-contractors shall include:
- (i) in the case of work or services executed - for affording the use of existing working space, access, temporary roads, erected scaffolding, working shelters, staging, ladders, hoists, storage, latrines, messing, welfare and other facilities existing on Site and the provision of protection, water, electricity for lighting and clearing away rubbish and debris arising from the work;
 - (ii) in the case of goods, materials or services supplied - for taking delivery, unloading, storing, protecting and returning crates, cartons and packing materials.

Roadworks Overall Requirements

- 8 The Contractor shall allow in his rates and prices for complying with requirements in respect of pavement construction, horizontal alignments, surface levels and surface regularity of pavement courses, dealing with changes in weather conditions, use of surfaces by traffic and construction plant, and general requirements for sub-bases and road bases.

Work Within and Below Non-tidal Open Water or Tidal Water

- 9 The Contractor shall allow in his rates and prices for taking measures required to execute work within and below non-tidal open water or tidal water. The Contractor shall include in his rates and prices for any investigations to ascertain actual boundaries, surface levels and ranges affected by non-tidal open water or tidal water.

Dealing with Flow

- 10 The Contractor shall allow in his rates and prices for taking measures to deal with the existing flow of water, sewage and the like.
- 11 Not Used

Site Limitations and Constraints

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

Hard Material

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

	(b)	those deposits designated by limits shown on the Drawings;
	(c)	existing pavements, footways, paved areas (but excluding unbound materials) and foundations in masses in excess of 0.20 cubic metres.
Equivalent Products and Materials	14	<p>Where the Contractor offers an equivalent product or material in place of the one identified or specified, then the rates and prices in the Schedule of Rates 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 acceptance, resubmissions and modifications and amendments to the Works.</p> <p>Unless specifically stated to the contrary in the Contract the measurement of the Works affected by the incorporation of the equivalent products and materials shall be based on the Tender documents and not on the Works as amended and completed to incorporate the equivalent products and materials.</p>
Permanent Works Designed by the Contractor	15	<p>(05/01) Where the Contract requires part(s) of the Permanent Works to be designed by the Contractor, the rates and prices in the Schedule of Rates shall include for all the obligations and costs associated with the incorporation of the Contractor's design into the Works, including design, provision of data and drawings, certificates, awaiting approvals, resubmissions and modifications and amendments to the Works.</p> <p>Additionally the rates and prices in the Schedule of Rates shall include for the costs of all testing and sampling to be carried out by the Contractor in respect of workmanship, goods and materials incorporated into the Works or to prove the Contractor's design.</p>
Structures Designed by the Contractor	16	Not used
National Alterations for The Overseeing Organisations of Scotland, Wales and Northern Ireland	17	<p>Where a paragraph in Chapter IV of the Method of Measurement for Highway Works (Units and Methods of Measurement) or in the Notes for Guidance on the Method of Measurement for Highway Works or in the Library of Standard Item Descriptions for Highway Works is prefixed by # this indicates that this particular paragraph has a National Alteration for one or more of the Overseeing Organisations of Scotland, Wales or Northern Ireland. The use of national paragraphs is permitted only within the countries to which they specifically apply and they are deemed to replace corresponding paragraphs in the main body of Chapter IV of the Method of Measurement for Highway</p>

		Works (Units and Methods of Measurement) or in the Notes for Guidance on the Method of Measurement for Highway Works or in the Library of Standard Item Descriptions for Highway Works as appropriate. The National paragraphs correspond to the particular requirements of the National Alterations for the Overseeing Organisations of Scotland, Wales or Northern Ireland contained in Volume 1 of the Manual of Contract Documents for Highway Works. The substitute or additional paragraphs are located at the end of the relevant Series.
Testing	18	<p>(05/01) Testing as paragraph 2(x) above, is in respect of tests to be carried out by the Contractor to verify workmanship, goods and materials incorporated into the permanent works and testing of the permanent works in order to prove the Overseeing Organisation's design as set out in Appendix 1/5.</p> <p>Checking, inspecting, examining, measuring and verifying goods, materials and workmanship incorporated in the permanent works, as paragraph 2(xii) above, is in respect of other operations set forth or reasonably implied in the Contract to be carried out by the Contractor to demonstrate compliance with the particular requirements of the Contract, or to prove the Overseeing Organisation's design where not separately listed in Appendix 1/5, but excluding trial erection of structural steelwork which shall be measured separately in accordance with Series 1800.</p> <p>Procedural trials, trial panels and trial areas required to be carried out or constructed as separate operations in advance of the permanent works in order to verify goods, materials and workmanship shall not be measured separately but are included within the item coverage for the relevant Series.</p> <p>Testing of existing structures and other investigative works shall be individually measured within the relevant Series.</p>
	19	Not Used
Adjustment to Schedule of Rates	20	The Schedule of Rates to be applied to a Scheme may be subject to adjustment in accordance with the Pricing Schedule
Amendments to the Method of Measurement	21	(05/01) For the purposes of the Contract the Method of Measurement for Highway Works is amended by replacing the words "Bill of Quantities" with "Schedule of Rates" and in accordance with the pages immediately following.

**Method of Measurement for Highway Works
Schedule of Pages and Relevant Publication Dates**

Chapter/Series	Page Number	Publication Date
Contents	1	Nov 2004
	2	May 2005
	3	Nov 2004
	4 to 7	May 2005
Chapter I	1 to 3 inclusive	March 1998
Chapter II	1	March 1998
	2	May 2001
Chapter III	1	March 1998
	2	May 2001
	3 to 12 inclusive	May 2004
	13	Nov 2006
	14 to 16 inclusive	May 2005
	15 to 19 inclusive	Nov 2006
Chapter IV	1	March 1998
100	1 to 2 inclusive	March 1998
	3 to 7 inclusive	May 2001
	8	Nov 2004
	9 to 11 inclusive	May 2001
	12	Nov 2004
	13 to 15 inclusive	May 2001
200	1	May 2001
	2 to 3 inclusive	May 2004
	4	May 2001
300	1 to 5 inclusive	May 2001
400	1 to 2 and 4 to 8 inclusive	Nov 2004
	3	Nov 2006
500	1 to 5 inclusive	May 2001
	6	Nov 2004
	7 to 13 inclusive	May 2001
	14	May 2005
	15	May 2001
	16 to 17 inclusive	May 2005
	18	May 2001
	19	Nov 2003
	600	1
2		May 2001
3		March 1998
4 to 11 inclusive		Nov 2004
12		May 2002
13 to 14 inclusive		Nov 2004
15 to 38 inclusive		May 2001
N1 to N3 inclusive		May 2002

Schedule of Rates

CM Pavement Framework
Method of Measurement

700	1 2 3 4 to 5 inclusive 6 7 to 9 inclusive 10 11 12 to 13 inclusive 14 15 to 18 inclusive	May 2001 May 2002 May 2001 May 2002 May 2001 May 2002 May 2001 May 2002 May 2001 May 2002 May 2001
800 900 1000)) Not taken up)	
1100	1 2 3 4 to 5 inclusive 6 7 to 8 inclusive	May 2001 Nov 2004 May 2001 May 2002 May 2001 May 2005
1200	1 to 2 inclusive 3 to 5 inclusive 6 to 11 inclusive	May 2001 March 1998 May 2001
1300	1 to 3 inclusive	Nov 2003
1400	1 to 2 inclusive 3 4 to 8 inclusive 9	May 2001 May 2005 May 2001 May 2005
1500	1 to 2 inclusive 3 4 to 7 inclusive 8 to 12 inclusive	May 2001 May 2005 Feb 2003 May 2001
1600	1 to 2 inclusive 3 to 6 inclusive 7 8 to 19 inclusive	March 1998 May 2001 March 1998 May 2001

Chapter/Series	Page Number	Publication Date
1700	1	May 2004
	2	May 2001
	3	May 2004
	4 to 11 inclusive	May 2001
1800	1	March 1998
	2 to 5 inclusive	May 2001
1900	1	May 2003
2000	1	May 2002
	2 to 3 inclusive	May 2001
2100	1	March 1998
2200	Not taken up	
2300	1 to 3 inclusive	March 1998
2400	1 to 3 inclusive	May 2001
	4	March 1998
2500	1 to 2 inclusive	May 2001
2600	Not taken up	
2700	1	May 2001
3000	1 to 15 inclusive	May 2001
5000	1 to 2 inclusive	May 2003

Amendments to Chapter IV of the Method of Measurement

Series 100 : Preliminaries

Insert new paragraphs 1:

Definitions

1

- (a) "facilities" shall mean temporary accommodation and all other provisions to meet health and safety requirements
- (b) "various organisations" shall mean other Contractors working within the site area of the Contractor when acting as Principal Contractor under CDM Regulations 2015
- (c) Refer to paragraph 39 for Principal Contractor duties

Delete paragraphs 2 to 6 inclusive and substitute the following paragraphs 2 to 5 inclusive:

Facilities

Units

2 The unit of measurement shall be:

- (i) provision and removal of facilities.....item.
- (ii) servicing of facilities day.

Itemisation

3 Separate items shall be provided for facilities in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Provision and removal. 2 Servicing.
II	1 All necessary facilities (whether mobile or fixed)
III	1 Task order value not exceeding £150,000 2 Task order value exceeding £150,000
IV	1 to accommodate upto 10 people from various organisations 2 to accommodate upto 20 people from various organisations 3 to accommodate upto 30 people from various

 organisations

Provision and removal of Facilities whether fixed or mobile

Item coverage

4 The items for provision and removal of facilities shall in accordance with the Preambles to Schedule of Rates General Directions include for:

(i) In the case of facilities required by the Contractor

- a) everything required by the Contractor and everything required by the Contractor when acting as Principal Contractor under CDM Regulations 2015 (refer to paragraph 39), except for rental payment for the land required for facilities;
- b) Reinstatement of sites occupied by the facilities.

(ii) In the case of provision of facilities for the Overseeing Organisation:

- a) initial accommodation and equipment, maintenance, servicing and removing;
- b) sites for the accommodation;
- c) preparation of sites;
- d) foundations, bases and hardstandings;
- e) water, sanitation, heating, power and lighting services;
- f) fences, notice and direction boards;
- g) vehicle access, hardstandings, parking areas and footpaths;
- h) equipment, furnishings, fittings, supplies and initial
- i) consumable stores;
- j) telephones, extensions, switchboard and switching systems
- k) separately connected to the telephone system;
- l) in the case of accommodation provided by the Overseeing Organisation, alterations and refurbishments.

Servicing of facilities whether fixed or mobile

5 The items for servicing of facilities shall in accordance with the Preambles to Schedule of Rates General Directions include for:

- | | |
|---------------|--|
| Item coverage | <p>(i) In the case of facilities required by the Contractor</p> <ul style="list-style-type: none"> a) everything required by the Contractor and everything required by the Contractor when acting as Principal Contractor under CDM Regulations 2015 (refer to paragraph 39) except for rental payment for the land required for the facilities. <p>(ii) In the case of facilities for the Overseeing Organisation:</p> <ul style="list-style-type: none"> a) rental and leasing including telephone rental; b) heating, sanitation, power, lighting and water; c) depreciation and maintenance of buildings, services, fences, notice and direction boards, vehicle access, parking areas, hardstandings and footpaths; d) depreciation, maintenance and replacement of equipment, furnishings, fittings and supplies; e) cleaning accommodation; f) moving and re-establishing portable accommodation as required; g) replenishment of consumable stores; h) repairing, replacing, calibration of equipment; i) disposal of waste. |
|---------------|--|

Delete paragraphs 21 to 33 inclusive & replace with the following paragraphs 21 to 39 inclusive;

Renumber paragraphs 34 to 55 paragraphs 40 to 61

Delete paragraphs 40 to 43 inclusive

Insert new paragraphs 37 to 39

Principal Contractor Duties

Units	37 The unit of measurement shall be:
-------	--------------------------------------

		Carrying out duties of a Principal Contractor..... week.
Itemisation	38	
	Group	Feature
	I	1 Carrying out duties of Principal Contractor
Carrying out duties of a Principal Contractor	39	The items for carrying out duties of a Principal Contractor shall in accordance with the Preambles to Schedule of Rates General Directions include for:
Item coverage		<ul style="list-style-type: none"> a) carrying out Principal Contractor duties in accordance with Construction Design and Management (CDM) Regulation 2015 and any amendments thereof; b) Production of construction programme including detailed Traffic Management; c) Distribution, maintenance and updating of scheme construction programme; d) Collation or review of Risk Assessment Method Statement; e) Preparation and submission of Construction Phase Plan; f) Production and control of Site Waste Management Plan (Best practise); g) Coordination of temporary works programme; h) Local liaison and access provision; i) Implementation of site vehicle and pedestrian movements and segregation, with controlled methodology; j) Provision of measures to ensure the protection of assets/equipment that could be damaged during the course of the works; k) Principal Contractor Inductions; l) Site Inductions; m) Site Manager availability during whole shift; n) Provision of site facilities including security;

- o) Ensuring facilities are in place before commencement of works;
- p) Collate and submit to Principal Designer information to be included in Health and Safety File;
- q) Site Management;

Series 700 : Pavements

Amend paragraph 4, add the following:

4

Group	Feature
II	4 In central reserve
III	1 Different Operation Areas

Pavement

Pavement

Delete paragraphs 6 to 8 inclusive and replace with the following:-

Units

6 The unit of measurement shall be:

- (i) Base, lower base, upper base, binder course, surface course, concrete slab.....square metre
- (ii) Adjustment on last item for change in PSV.....cubic metre

Measurement

7 The measurement of base, lower base, upper base, binder course, surface course and concrete slab shall be calculated using the width of the top surface of the course or slab.

Note: The width of the “top surface” of the course or slab shall be the width required by the Contract and shall exclude sloping sides or edges.

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

Where an adjustment is required in excess, or reduction, of the PSV stated within the Schedule of Rate item description, the adjustment rate is to be applied by multiplying the surface area by the required thickness to obtain a cubic metre quantity and shall be measured for Thin Surface Course System materials only.

8 Separate items shall be provided for base, lower base, upper base, binder course, surface course and concrete slab in accordance with Chapter II paragraphs 3 and 4 and the following:

Itemisation

Group	Feature
I	1 Pavement
II	1 Base 2 Lower base 3 Upper base 4 Binder course. 5 Surface course. 6 Concrete slab
III	1 Each group or type.
IV	1 Different thicknesses
V	1 Reinforced
VI	1 In carriageway, hardshoulder and hardstrip. 2 In emergency crossing 3 In lay-by and bus-bay. 4 In central reserve
VII	1 In overlay
VIII	1 Adjustment to Thin Surface Course Materials for different PSV's
VIII	1 Different Operation Areas

Note: For each item which includes Group VIII Feature 1 an item shall be provided for adjustment of the rate for each PSV difference where the measurement varies from that stated in the Schedule of Rates.

Surface Treatment

Delete paragraphs 15 to 19 inclusive and replace with the following:

Units

15 The units of measurement shall be:

a) Resin based (cold applied) high friction surfacing.....square metre

b) Resin based (cold applied) coloured surfacing.....square metre

Measurement

16 The measurement of surfacing treatment shall be the full surface area of the material laid.

17 Separate items shall be provided for surface treatment in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Resin based high friction surfacing
	2 Resin based coloured surfacing
II	1 Different colours
III	1 Different Operation Areas

Item coverage

18 The items for high friction surfacing shall in accordance with Preambles to Bill of Quantities General Directions include for:

a) trial areas and trials;

b) spreading and rolling deposited materials;

c) tack coat (as this Series paragraph 24);

d) resin based surface treatment certification of spraying equipment and supplying copy of certificate at monthly

-
- intervals to the Overseeing Organisation;
 - e) measures required for aftercare and opening road to traffic.
 - f) provision, application and spreading of materials;
 - g) cleaning and preparing existing surfaces and to existing edges and features such as kerb lines, ironworks and the like, including mechanical or manual loosening, sweeping and clearing;
 - h) Protection of adjacent areas, kerbs, street furniture and structures, masking and unmasking of drainage channels, chamber covers, gully gratings, road studs, road markings and the like;
 - i) Sweeping and all other measures required for aftercare and opening the road to traffic for the full duration of the guarantee period;
 - j) Setting out and laying to correct alignments

**Cold Milling
(Planing)**

Measurement

Delete paragraph 27 and replace with the following paragraph 27:

27 Separate items shall be provided for milling in accordance with Chapter II paragraphs 3 and 4 and the following:

Itemisation

Group	Feature
I	1 Milling
II	1 Different thicknesses
III	1 Different Operation Areas
