



OMNIBUS FRAMEWORK CONTRACT 2009 - 2013

CONTRACT DOCUMENT

Volume 2

CONTRACT DOCUMENTS

CONTENTS

VOLUME 1

	Instructions to Tenderers/Annex to Instructions to Tenderers
	Form of Tender / Appendices and Annex to Form of Tender
Part One	Form of Agreement
Part Two	Conditions of Contract
Part Three	Framework Contract - Contract Data
Part Four	NEC PSC Time Charge Orders - Contract Data
Part Five	NEC ECC Package Orders - Contract Data
Part Six	NEC ECSC Package Orders - Contract Data
Part Seven	Framework Information
	Schedule 1
	Part 1 Form of Supplier's Collateral Warranty
	Part 2 Form of Subcontractor's Collateral Warranty
	Part 3 Form of Performance Bond
	Part 4 Form of Time Charge Order
	Part 5 Form of Package Order
	Part 6 Form of Parent Company Guarantee
Part Eight	Scope
Part Nine	Quotation Information
Part Ten	Quotation Procedure

VOLUME 2

Part Eleven	Schedule of Rates
Part Twelve	Incentive Schedule for NEC ECC Package Orders

VOLUME 3

Part Thirteen	<i>Supplier's</i> Tender Submission Document
	Form of Tender / Appendices and Annex to Form of Tender
	Framework Contract - Contract Data Part Two
	NEC PSC Time Charge Orders - Contract Data Part Two
	NEC ECC Package Orders - Contract Data Part two
	NEC ECSC Package Orders - Contract Data Part Two
	Schedule of Rates

PART ELEVEN SCHEDULES OF RATES

Schedules for Target Pricing Works carried out under the Framework Contract.

CONTENTS:

SECTION 1: PREAMBLES

Preambles to Schedule 1. British Waterways (BW) base schedule of rates:

Preambles to Schedule 2. Minor Works Team schedule of rates;

Preambles to Schedule 3. *Supplier's* Core Team staff schedule of rates;

Preambles to Schedule 4. Emergency Call Out Situations: Structural failures and reservoirs schedule of rates

SECTION 2: SCHEDULES OF RATES

Schedule 1: Waterways (BW) base schedule of rates
Working from Water Adjustment, Table 1.1;
Geographical Location Adjustment, Table 1.2;
Rates, Prices & Percentages, Table 1.3;
Final Percentage Adjustments, Table 1.4;

Schedule 2: Minor Works Team schedule of rates
Minor Works Daily Team Rate, Table 2.1;
Geographical Location Adjustment, Table 2.2;

Schedule 3: *Supplier's* Core Team staff schedule of rates
Rates for the *Supplier's* Core Team Staff, Table 3.1;
Geographical Location Adjustment, Table 3.2;

Schedule 4: Emergency Call Out Situations: Structural Failures and Reservoir Emergency Drawdown schedule of rates
Enhancement to normal Fee %age for Structural Failure Situations, Table 4.1;
Names of Preferred Companies and Suppliers for Canal Breach & Infrastructure Failures, Table 4.2;
Rates for Reservoir Emergency Drawdown (RED) Situation, Table 4.3;
Names of Preferred Companies and Suppliers for RED, Table 4.4;
Geographical Location Adjustment, Table 4.5;
Enhancement to normal Fee %age for Reservoir Emergency Drawdown (RED) Situations, Table 4.6;

SECTION 3: Process for pricing Target Cost Items not included or covered by the Schedules 1, 2 & 3

- Similar items to Schedules 1;
- Dissimilar items to Schedules 1;
- Database for new rates;
- Subcontractor quotations;

- S/C quotation management fee percentage, Table 5.1;
 - S/C quotations for M&E works;
 - S/C quotations, general
 - Geographical Location Adjustment, Table 5.2;
 - Labour rates schedule, table 5.3;
 - Plant rates schedule of adjustments, table 5.4
-

SECTION 1 : PREAMBLES

Schedule 1: British Waterways Base Schedule of Rates

Preambles & Explanation to Schedule 1

Forward:

The following shall be read in conjunction with the *conditions of contract* and Works Information including the General Specification of Materials and Workmanship for Schedule 1.

Schedule 1 contains:

General Items:

- Employer's Requirements
- Mechanical Plant not included in the Rates
- Non-Mechanical Plant not included in the Rates
- Instruments
- Plant Yard Costs
- Plant Transport
- Site Staff
- Site Hardstandings, Compound Area
- Site Set-Up
- Temporary Works – Access tracks
- Temporary Works – General
- Miscellaneous
- Testing

Permanent Works:

- Grouting
- Demolition & Site Clearance
- Earthworks
- In-situ concrete
- Concrete Ancillaries
- Pipework – Pipes
- Pipework – Fittings and Valves
- Pipework – Manholes and Pipework Ancillaries
- Pipework – Supports and Protection, Ancillaries to Laying and
Excavation
- Timber
- Piles
- Piling ancillaries
- Roads & pavings
- Brickwork, blockwork & masonry
- Miscellaneous Work
- Culvert Renovation

Final Percentage Adjustments

The schedule is for use in the build up of target costs for ECC Package Orders carried out under the Framework Contract.

Method of Measurement:

Notwithstanding the notes for each Class of item below, where the Civil Engineering Standard Method of Measurement (CESMM) is referred to the following shall apply:

“The method of measurement shall include for Engineering works to BW assets across the canal network at any location along a canal corridor and for sizes of projects as indicated in this document.”

This shall therefore take account of the scope and logistics of the works, the type of plant required for carrying out the works and the likely productivity rates that would apply, all on the BW network.

General Items – Each item is measured generally in accordance with Class A General Items of the CESMM 3rd Edition for the respective type of item as indicated by the prefix A against each one.

Demolition & Site Clearance – Each item is measured generally in accordance with Class D Demolition & Site Clearance of the CESMM 3rd Edition for the respective type of item as indicated by the prefix D.

Earthworks – Each item is measured generally in accordance with Class E Earthworks of the CESMM 3rd Edition for the respective type of item as indicated by the prefix E.

In-situ Concrete – Each item is measured generally in accordance with Classes F for concrete of the CESMM 3rd Edition for the respective type of item as indicated by the prefix F.

Concrete Ancillaries – Each item is measured generally in accordance with Classes G for concrete of the CESMM 3rd Edition for the respective type of item as indicated by the prefix G

Pipework – Pipes – Each item is measured generally in accordance with Classes I for concrete of the CESMM 3rd Edition for the respective type of item as indicated by the prefix I

Pipework – Fittings and Valves – Each item is measured generally in accordance with Classes J for concrete of the CESMM 3rd Edition for the respective type of item as indicated by the prefix J

Pipework – Manholes and Pipework Ancillaries – Each item is measured generally in accordance with Classes K for concrete of the CESMM 3rd Edition for the respective type of item as indicated by the prefix K

Pipework – Supports and Protection, Ancillaries to Laying and Excavation – Each item is measured generally in accordance with Classes L for concrete of the CESMM 3rd Edition for the respective type of item as indicated by the prefix L

Timber – Each item is measured generally in accordance with Class O Timber of the CESMM 3rd Edition for the respective type of item as indicated by the prefix O.

Piles - Each item is measured generally in accordance with Class P Piles of the CESMM 3rd Edition for the respective type of item as indicated by the prefix P.

Piling Ancillaries - Each item is measured generally in accordance with Class Q Piling Ancillaries of the CESMM 3rd Edition for the respective type of item as indicated by the prefix Q.

Roads & Pavings - Each item is measured generally in accordance with Class R Roads & Pavings of the CESMM 3rd Edition for the respective type of item as indicated by the prefix R.

Brickwork, Blockwork & Masonry - Each item is measured generally in accordance with Class U Brickwork, Blockwork & Masonry of the CESMM 3rd Edition for the respective type of item as indicated by the prefix U.

Miscellaneous Work - Each item is measured generally in accordance with Class X Miscellaneous Work of the CESMM 3rd Edition for the respective type of item as indicated by the prefix X.

Culvert Renovation & Ancillary Work of the CESMM 3rd Edition for the respective type of item as indicated by the prefix Y.

Free Issue Materials:

Where items are free issue, the *Supplier's* costs relating to inspections, delivery, offloading, storage, distribution and other associated costs shall be deemed to be included in his rates.

Working from Water:

The *Supplier* shall note that the rates for working from water exclude the cost of Helmsman and Flagman. These rates are included under 'Site Staff' in the General Items section of Schedule 1.

The additional plant and equipment required to enable working from water are included in the General Items section of Schedule 1 under 'Temporary Works'.

A percentage rate adjustment to relevant Classes of work, applicable when work is carried out from water, is included in Table 1.1.

Pricing:

The *Supplier* shall insert the rates, prices and percentages into Section 2 of the schedule.

The Schedules show typical items that *Suppliers* for the framework contract might be expected to price for projects carried out under the contract.

All rates are to be at the base date of 2Q2009 for adjustment in accordance with clause Z1.1 of Part 5.

Rates are to be all inclusive.

The *Supplier* shall note that, where installation is identified in Schedule 1, the item shall include for provision (supply) unless otherwise stated in the item description as *Employer's* supply.

Rock shall be defined as hard strata found in ledges or masses in its original naturally occurring position which in normal circumstances would have to be loosened by:

- Blasting
- Using pneumatic rock tools
- By hand, using wedges and sledge hammer
- By drilling using diamond or tungsten carbide drill bits

The rates and prices in the schedule of rates shall include for but shall not be limited to the following as may be appropriate:

1. All necessary earthwork support.
2. Compacting bottom of excavations.
3. Compacting filling materials including in layers.
4. The cost of excavation and filling where the *Supplier* has carried out extra excavation in order to undertake the works.
5. Additional filling to make up to level as a result of consolidation, wastage and penetration.
6. All labours involved in forming puddle clay into linings and seals.
7. Working within 750m of the site establishment area access point.
8. Keeping construction surfaces free from running and standing water.
9. All resources used in the particular operation in accordance with modern, safe site practice to current standards.
10. Reinstatement or making good of the site areas means, unless detailed otherwise in the specific Works Information, but not by way of limitation:
 - Removal of all imported temporary materials
 - Ploughing of compacted sub-soils
 - Rotovating of the ground
 - Replacement of original materials
 - Stone picking
 - Tilthing, raking fertilising & seeding of finished topsoil surfaces
 - Replacement of any interrupted or damaged drainage systems
 - Replacement of any removed or damaged gates, fences, structures, etc

General Items:

The rates are to be for single units of measure, to be extended for the projects involved.

The rates quoted in Schedule 1 for Supervision and Labour are based on a 45 hour working week including provision of vehicles and mobile phones i.e. an "All Inclusive" rate.

The "on/off" costs for bringing plant and equipment to site are covered in the Plant Transport section. There are three percentage allowances:

'direct plant'

'mechanical plant not included in the rates'

'non-mechanical plant not included in the rates'.

The rates in schedule 1 shall be deemed to be all inclusive of the elements required to carry out the work. This includes labour, plant, materials, time, etc and *Supplier's* risk under the contract.

All site signage requirements shall be deemed to be included in the rates or percentages.

Included within this and in addition to the *Supplier's* signage requirements, each site shall have a main project signboard at the entrance giving relevant information to the public and visitors. Size approximately 2m by 2m, painted white with black lettering, generally. A signboard template is included in the standard drawings elsewhere in the documentation.

Where paths & towpaths are closed these shall be signed with relevant information.

The *Supplier's* safety signage shall include all warning notices to the public (as well as the workforce) sited as and where necessary. Special warning requirements apply to a canal closure and these shall be detailed in the Works Information and/or Specification for the particular project in question.

The floating plant & equipment to enable working from water for all classes of work in schedule 1 are covered in the 'Temporary Works' section.

The *Supplier* shall insert his rates, prices and percentages at the time of tender.

If any of the percentages are not relevant to the *Supplier's* pricing mechanism, then these shall be marked as 'not applicable' (N/A) and shall be deemed to be included elsewhere.

Items requiring a rate or price shall be fully completed. Rates and prices not completed or filled in shall be deemed to be included elsewhere in the completed rates. There shall be no allowance for any subsequent additions for these items.

All operational plant, such as excavators and similar, shall be delivered to site with bio-degradable hydraulic oil systems already present. This shall be incorporated into the rates.

Permanent Works Items:

The permanent work items have been developed specifically for BW works.

Landfill Tax:

British Waterways have exemption from the amount of tax levied for dredging materials and contaminated material.

Additional Preambles and explanation to Schedule 1:

- a. Free Issue Materials will be delivered to the Site by the *Employer*. The rates in the Schedule of Rates are to include for offloading including all necessary Equipment, people and other costs.
- b. Standard trench sheeting and normal walings will be supplied galvanised. Structural piles and back to back channel walings will not be supplied galvanised.
- c. Facing bricks are to be assumed to be PC £250 per thousand.

- d. Measures rates are to include for all necessary people, Equipment, Plant and Materials, etc. Rates for Mechanical Plant Not Included in Rates, Non-Mechanical Plant Not Included in Rates and Supervision and Labour in Section A are for ad-hoc items of plant and supervision and labour not proportional to quantities of work and therefore excluded from measured item rates.
- e. Rates for Mechanical Plant Not Included in Rates Items A331.1 to A331.8, A336.1 to A336.6 and A339.6.1 to A339.6.10 inclusive are to include for operators. In addition rates for items A331.1 to A331.8 are to include for all personnel necessary to effect a lift. For all other items, operatives / drivers for Mechanical Plant Not Included In Rates and not proportional to quantities will be paid under item A373.7. Associated labour will be paid as item A373.6 or A373.8 as appropriate.
- f. Protective coatings factory applied to steel sheet piles will be measured along the profiled face of the sheet piling.
- g. The Contract Insurance percentage at item A120 is to cover all insurance under the Framework Contract including work and services under the ECC, PSC and ECSC not otherwise included in rates.

END OF SECTION 1, SCHEDULE 1

SECTION 1

Schedule 2: Minor Works Team Schedule of Rates

Scope, Pricing and Valuing Minor Works Projects:

The Minor Works Team is set up to undertake small jobs of up to around £40,000 nominally, with a duration of 2 to 3 weeks, typically.

The form of contract is to be the NEC3 / ECSC / Short Contract.

The Minor Works Team is to be managed by the *Supplier's* Works Operations Manager or equivalent. The Works Operations Manager is to be charged for under the core team arrangement, ie a separate Time Charge Order.

Day to day running of active sites are to be under the responsibility of a site agent who will also be charged for under the core team arrangement.

Type of work to include (but not by way of limitation):

- Brickwork repairs
- Masonry repairs
- Towpath repairs
- Fencing
- Clearance of vegetation
- Customer facilities such as moorings, bollards, landings, etc
- Parapet repairs to bridges
- Trench sheeting to canal banks

Each team is to consist of a working Foreman plus 2 multi-skilled Operatives together with a Welfare Van and Pickup / Trailer.

The *Project Manager* is to provide a sufficient brief or Work Information Package (in short form), which will include the following:-

- Location of the works
- Works information
- Site information
- Free issue material details (if any)
- Operational constraints (BW)
- Risk assessments
- CDM Forms
- F10 Notification
- Environmental appraisal
- Service checks
- Other relevant information

The *Supplier's* Works Operations Manager and the *Employer's* Representative are to work collaboratively directly on workflow, projects, programme, continuity etc.

Team costs to include the following:

- Working Foreman (GE 700, First Aider, etc)
- 2 Multi-skilled Operatives (1 to be capable of operating excavator, dumper, etc)
- Welfare Van
- Trailer (pick-up)
- Fuel for van and small tools, etc
- Small tools, including hand breakers, drills, saws, etc.
- Mobile Phone
- Consumables
- Welfare
- Safety Equipment e.g. CAT scanner, PVC fencing, road pins, Signs, etc.
- PPE (incl. wet weather gear)

The team costs are to be inserted into Schedule 2 Table 2.1 in Section 2.
This is extended to produce a basic day rate for the team.

There is an allowance for geographic location adjustment to be inserted at table 2.2 in Section 2
Schedule 2.

All rates are to be at the base date of 2Q2009 for adjustment in accordance with clause Z1.1 in Part 6.

Target or Tender Costs are built up on the following basis:

Day rate for the Team
Materials at forecast of Cost + Management Fee Percentage
Plant at forecast of Cost + Management Fee Percentage

Price List

The *Supplier* will produce a Price List based upon the following:-

Duration of the work agreed with the *Employer* x day rate for the team
Forecast Defined Cost of people employed by the *Supplier*, Plant and Materials, work subcontracted and Equipment not covered by the day rate for the team.

The percentages for overheads and profit stated in the Contractor's Offer at Part 6 are to be applied to the Defined Cost not covered by the day rate for the team.

Compensation Events:

The Supplier is paid the total of the Prices in the Price List which is not adjusted if the quantity or duration in an item changes, however Compensation Events will be agreed in the normal way under the NEC short contract for *Employer* changes, lack of *Employer* supplied materials, etc.

END OF SECTION 1, SCHEDULE 2

SECTION 1

Schedule 3: *Supplier's Core Team Staff Schedule of Rates*

The *Supplier's* element of the core team is to consist of the relevant, experienced people necessary for the proper, effective and efficient management and execution of the works.
The roles and responsibilities are as described elsewhere in the contract document.

The *Supplier* shall insert his staff rates for the various grades of people into Table 3.1.

Those that are not applicable shall be marked as N/A.

Additional categories may be added if necessary.

There is an allowance for geographic location adjustment to be inserted at table 3.2 in Section 2 Schedule 3.

The staff rates shall be all-inclusive rates covering the following components (but not exclusively):

- Salary
- Bonus, incentives etc.
- Overtime (if applicable)
- Working in special circumstances
- Special allowances
- Vehicle for travel (except mileage), including insurance and all other costs
- Mobile telephone
- PPE
- Medical provision
- Management, overhead, profit
- Plus all other staff related costs (excluding expenses, see below)

The resultant rate shall be used to reimburse the *Supplier* for the cost of the staff involved in the core team.

The rate shall be paid only when the employee is working under the framework contract or on framework contract business, that is - he/she will not be paid when on annual leave, bank holidays or sick leave.

The cost of expenses properly spent in providing the services shall be included in the monthly assessment. They shall be identified as a separate item of cost for each individual.

The rate for mileage shall be inserted at the bottom of table 3.1.

Payment for the core team will be via the monthly application system substantiated by timesheets of all the core team members.

END OF SECTION 1, SCHEDULE 3

SECTION 1

Schedule 4: Emergency Call Out Situations for Structural failures & Reservoirs Schedule of Rates

This schedule covers those emergency situations to canal structures and reservoirs where an immediate response is required from the framework *Supplier*.

This schedule is split into 2 parts:

- (i) Structural Failure
- (ii) Reservoir Emergency Drawdown

Structural Failure

This covers such items as:

- canal breaches
- culvert collapses
- bridge failures
- structural wall failures
- aqueduct failures etc.

Reservoir Emergency Drawdown

This covers emergency water level drawdown on certain identified reservoirs where enhanced draw off of water is required to meet the statutory target levels required within a fixed period of time.

Emergency Call Out Situations Generally

The *Supplier* shall put into place an emergency call out procedure for dealing with these situations. This shall include a number of staff being "on call" to act in this capacity, including any direct labour support teams. The on-call facility will extend down the supply chain to include sub-contractors and suppliers who would be able to assist in these situations. This shall include weekends and holidays, 24 hours a day and seven days a week, throughout the year.

This shall be capable of guaranteeing timely effective assistance in these situations.

The response support should be geographically situated such that there is an adequate area of coverage of the canal network. The time taken to reach a location will vary but should ideally be less than 4 hours and preferably less than 2 hours.

Structural Failures

Previous experience of BW infrastructure indicates that a serious structural failure or canal breach occurs on the network several times every year. In these situations an emergency response is required from the framework *Supplier* following a 24 hour standby notice from the *Project Manager*.

In the event of one of these situations arising the *Supplier* will appoint one of his call out team as the single point of contact for management and control purposes.

The usual approach is one of priority and all under instruction from the *Project Manager* as follows:

1. Immediate mobilisation
2. Make the situation safe
3. Undertake any immediate emergency repairs
4. Clear up any resultant damage and debris
5. Stand down

The *Supplier's* supply chain system shall include those preferred subcontractors and suppliers capable of assisting in these situations and these shall be named in Section 2 Table 4.2 of the Schedule document.

For the emergency stage of the works labour, Equipment, material and Plant costs and all associated site set up costs will be paid as Defined Cost in the normal manner under an ECC Package Order..

In addition there is provision within the rate table 4.1 for an enhancement to the normal direct and subcontracted fee percentages applicable to Defined Cost. The enhancement is an addition to the quoted rates given in the Contract Data. This is to allow for the emergency situation, possible 24 hour working arrangements, etc. The enhanced fee percentage shall apply to all items of Defined Cost. The total of the Prices shall be the Defined Cost plus normal fees and enhanced fees.

The permanent repair works are then followed up under a considered approach via a quotation under the NEC ECC Package Order route, but the enhanced fee shall not be applied

Reservoir Emergency Drawdown Schedule of Rates

General

BW owns just over 90 reservoirs across the network, around 48 of these are in a situation where additional pumping will be required over and above the existing draw off arrangements in order to draw down the water levels in an emergency situation. Each reservoir requires different arrangements for water level drawdown with respect to the number and size of pumps. Each reservoir has its own unique access constraints, varying from direct road access, access via stone tracks to no access at all.

This section is to provide for an emergency response on a BW reservoir requiring a rapid but controlled drawdown of the water level. These types of situation are extremely unlikely to occur in practice and are included as part of BW's emergency response planning arrangements.

The purpose of this schedule is to enable BW's reservoir emergency response plan to be put into immediate practical effect should it be required over the course of this contract. Each individual Business Unit owns and holds the emergency response plans for the reservoirs in its area. All activities associated with an emergency response will be directed and led by BW personnel from the particular Business Unit where the asset is located.

A schedule has been drawn up and this lists the requirements for all of the relevant reservoirs:

Reservoir	Location	Coordinates 6 Fig. only	Pumping Requirements	Comments
Coombs	SE of Whalley Bridge	404380	13 No. 12"	
March Haigh	W of Marsden, West Yorks	401413	2 No. 8"	Very remote
Rotten Park	Birmingham centre	404287	2 No. 8"	
Toddbrook	W of Whalley Bridge	400381	10 No. 8"	
Birkenburn	NW of Kilsyth, Scotland	267680	5 No. 8"	Very remote
Bosley	South of Macclesfield	392366	7 No. 12"	Alternate 18 No. 8"
Harthill	SE of Sheffield	449380	2 No. 6"	
Knypersley	S Biddulph, Staffs	389355	10 No. 8"	
Moorgreen	NE of Eastwood, N Notts	448349	3 No. 8"	
Pebley	SE of Sheffield	449379	2 No. 8"	
Bittell Upper	Barnt Green, NW of J2, M42	401276	4 No. 12"	Alternate 10 No. 8"
Black Loch	East of Airdrie, Scotland	286670	9 No. 8"	
Butterley	N Ripley, Derbyshire	440352	1 No. 6"	
Cam Loch	West of Lochgilphead Scotland	182688	10 No. 8"	Remote, stone tracks
Elton	West of Bury, Lancs	379409	5 No. 6"	Alternate 3 No. 8"
Gleann Loch	West of Lochgilphead Scotland	181688	2 No. 8"	Remote, stone tracks
Knipton	SW of Grantham, W Lincs	482330	9 No. 8"	
Lilly Loch	East of Airdrie, Scotland	282667	10 No. 8"	

Loch an Add	West of Lochgilphead Scotland	181689	10 No. 8"	Remote, stone tracks
Loch Clachaig	West of Lochgilphead, Scot.	181687	10 No. 8"	Remote, stone tracks
Sparth	North East Marsden W Yorks	406413	0	No pumping required
Knighton	SE Market Drayton, Salops	374328	5 No. 6"	
Startopend	North of Tring, Herts	492214	0	No pumping required
Tardebigge	East of Bromsgrove	398268	2 No. 6"	
Tunnel End	West of Marsden West Yorks	404412	1 No. 6"	
Rudyard	NW Leek, Staffs	395358	11 No. 12"	Alternate 28 No. 8"
Cobbinshaw	South of Bathgate, Scotland	303 659	8 No. 12"	Alternate 20 No. 8"
Foulridge Lower	North of Colne, Lancs	388442	9 No. 8"	
Codnor Park	North of Ripley, Derbyshire	443352	2 No. 6"	
Denton	West of Grantham	487334	3 No. 6"	
Gailey - Upper	East of M6 Junction 12	394310	3 No. 6"	
Gailey – Lower	East of M6 Junction 12	393310	5 No. 6"	
Fens Lower Pool	Brierley Hill, West Midlands	391288	1 No. 6"	
Bittell Mill Shrub	Barnt Green, NW of J2, M42	402274	3 No. 6"	
Napton	West of Daventry	447263	2 No. 6"	
Dimmingsdale	South-west of Wolverhampton	386296	1 No. 6"	
Makins Pool 1	North-west of Coventry	442288	2 No. 6"	
Earlwood - Terrys Pool	SW of Solihull, West Midlands	411274	6 No. 6"	
Drayton	Daventry	456265	4 No. 6"	
Naseby	North-west of Northampton	467278	6 No. 12"	
Wilstone	Tring, Herts	490213	0	No pumping required
Daventry	Daventry	458264	8 No. 8"	
Marsworth	Tring, Herts	492214	????	Details required
Sulby	North-west of Northampton	465281	4 No. 6"	
Welford	North-west of Northampton	465281	4 No. 6"	
Tringford	Tring, Herts	492214	????	Details required
Saddington	NW of Market Harborough	466291	5 No. 6"	

Note on Table above: Very remote means far from tarmac access road and at high elevation
Remote means accessible via stone tracks and at high elevation

The emergency plans held by the Business Units are undergoing continual further development and refinement in order to finalise them. This includes such detail as:

1. Site area for placement of pump generators
2. Location of parking and loading & offloading areas
3. Location of site set up area
4. Location of loading area onto the water, for cranes
5. Etc..

The *Supplier* will be expected to input into this process from a logistical and "workability" viewpoint in order to ensure that the particular plan is able to be put into effect. This input will be occasional and as directed by the *Project Manger*.

If a reservoir emergency situation does arise at any time, the response from the *Supplier*, his subcontractors and suppliers down the supply chain shall be **immediate and without delay**. This includes night time, weekends and holidays. The *Project Manager* will initiate and lead the response and issue directions as necessary.

The pump arrangement for the particular reservoir shall be up and running ideally within a period of 16 hours but within an absolute maximum period of 24 hours.

There shall be no compromise on these timings as there is potential risk to life, property and other infrastructure in these situations.

The *Supplier's* supply chain system shall include preferred companies and suppliers capable of assisting in this situation and these shall be named in Section 2 Table 4.4 of the Schedule document.

The supply chain list shall be maintained in an up to date manner throughout the course of the contract on a bi-annual basis by a named individual.

Access Arrangements

Where access via a roadway is available close to the water's edge there is provision within the pricing table for the use of mobile cranes for mobilising equipment onto the water.

Where access is remote from public roads and access tracks the *Supplier* will be instructed by the *Project Manager* on what he is required to do.

Equipment Items

The schedule of rates is to allow for those exceptional items of equipment required for the pumping operations in a rapid response situation. This includes electric submersible pumps, generators, pontoons to support the pumps, cables, hoses, float supports, etc. The rates are for weekly hire with a minimum hire period of 1 week.

The rates for these specialist items of equipment will be used as an element of the Defined Cost for them.

Other Costs

All other costs including all site set up costs will be paid as Defined Cost in the normal manner under an ECC Package Order.

In addition there is provision within the rate table 4.3 for an enhancement to the normal direct and subcontracted fee percentages applicable to Defined Cost. The enhancement is an addition to the quoted rates given in the Contract Data. This enhancement is to allow for the emergency situation, 24 hour working arrangements, etc. The enhanced fee percentage shall apply to all items of Defined Cost. The total of the Prices shall be the Defined Cost plus normal fees and enhanced fees.

The permanent repair works are then followed up under a considered approach via a quotation under the NEC ECC Package Order route, but the enhanced fee shall not be applied

There is an allowance for geographic location adjustment to be inserted at table 4.5 in Section 2 Schedule 4.

END OF SECTION 1, SCHEDULE 4

& END OF SECTION 1

SECTION 2: Schedule Pricing Tables

General: Items requiring pricing or percentages to be inserted are shaded light grey or marked as ##.

Section 2

Schedule 1 - British Waterways Base Schedule of Rates

General

The target cost, Total of the Prices, is worked up by applying the rates, prices, percentages and adjustments to the bills of quantity for each project carried out under the framework contract via the respective work order.

NB: The target cost includes all overhead and profit and these shall be deemed to be included in the rates.

Percentage Adjustments

- 1.1 The Method of Measurement is as described for individual items in Section 1, Schedule 1, the British Waterways Base Schedule of Rates.
- 1.2 The general Specifications 1 and 2 for materials and workmanship covering Schedule 1 is included in the contract document via the Works Information.
- 1.3 The *Supplier* shall indicate in table 1.1 below his proposed percentage adjustments, for working from water, to each Description to be applied in calculating the target cost (Total of the Prices) for work contained in individual Package Orders.
- 1.4 The *Supplier* shall indicate in table 1.2 below his proposed percentage adjustment, for the Geographic areas shown, to each Description to be applied in calculating the target cost (Total of the Prices) for work contained in individual Package Orders. (The geographical areas are the areas indicated in Laxton's Building Price Book 2007)

Percentage adjustments should include for **all** adjustments to his rates. This includes work on BW infrastructure and environment, etc all as described in section 1.

Schedule1 Working from Water Adjustment Table 1.1:

Class Code	Description	% Adjustment for working from water
A...	General Items	N/A
E...	Earthworks	
F...	In-situ Concrete	
G...	Concrete Ancillaries	
I...	Pipework – Pipes	
J...	Pipework – Fittings and Valves	
K...	Pipework – Manholes and Pipework Ancillaries	
L...	Pipework – Supports and Protection, Ancillaries to Laying and Excavation	
O...	Timber	
P...	Piles	
Q...	Piling Ancillaries	
R...	Roads and Pavings	
U...	Brickwork, Blockwork and Masonry	
X...	Miscellaneous Work	
Y...	Culvert Renovation	

Schedule1 Geographical Location Percentage Adjustment Table 1.2

Location	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Scotland						
Northern						
Yorks & Humber						
North West						
East Midlands						
West Midlands*						
Wales						
South East & Outer London						
Inner London						
East Anglia						
Avon, Dorset, Wilts, Gloucs						
Cornwall, Devon, Somerset						

* *base rate – West Midlands*

Rates, Prices and Percentages

- 1.5 The *Supplier* shall insert his rates, prices and percentages into Schedule 1, tables 1.3 and 1.4 below.

If any of the percentages are not relevant to the *Supplier's* pricing mechanism, then these shall be marked as 'not applicable' (N/A) and shall be deemed to be included elsewhere.

Items requiring a rate or price shall be fully completed. Rates and prices not completed or filled in shall be deemed to be included elsewhere in the completed rates. There shall be no allowance for any subsequent additions or negotiations for these items.

SECTION 2

Schedule 1, Rates, Prices & Percentages Table 1.3

Supplier to insert the rates, prices and percentages.

GENERAL ITEMS

EMPLOYER'S REQUIREMENTS

Code	Description	Unit	Rate
A741	<p><u>Landfill Tax</u></p> <p>This is for the amount of Tax levied for each scheme on the amount of waste to be disposed off site in accordance with current legislation.</p> <p>BW has exemptions for dredged material and contaminated material.</p> <p>This is to be left blank for tendering purposes.</p> <p>This is to be completed for each scheme when & where relevant.</p>	m ³	NIL

Schedule 1, General Items

MECHANICAL PLANT NOT INCLUDED IN RATES

Code	Description	Unit	Rate
A333	WHEELED DUMPERS:		
A333.1	1T DUMPER	week	##
A333.2	3T DUMPER	week	##
A333.3	5T DUMPER	week	##
A333	TRACKED DUMPERS:		
A333.4	1T DUMPER	week	##
A333.5	3T DUMPER	week	##
A333.6	5T DUMPER	week	##
A339.1.1	2 TOOL COMPRESSOR & TOOLS	week	##
A339.1.2	4 TOOL COMPRESSOR & TOOLS	week	##
A339.2	2T 4WD FORK LIFT	week	##
A351.1	2-WAY TRAFFIC LIGHT SET	week	##
A328.1.1	TOWER LIGHTING	week	##
A328.1.2	TASK LIGHTING	week	##
A335.1	MORTAR MIXER, 5/3 DIESEL	week	##
A339.3	SUCTION BRUSH (road sweeper) MEDIUM SIZE	day	##
A331	CRANEAGE:		
A331.1	10 T Mobile	day	##
A331.2	20 T Mobile	day	##
A331.3	40 T Mobile	day	##
A331.4	60 T Mobile	day	##
A331.5	100 T Mobile	day	##
A331.6	25 T Crawler	week	##
A331.7	40 T Crawler	week	##
A331.8	60 T Crawler	week	##
A339.4.1	2.5 KVA GENERATORS	week	##
A339.4.2	5 KVA GENERATORS	week	##
	SUBMERSIBLE PUMPS:		
A356.1	2" / 51mm PUMP C/W HOSES	week	##
A356.2	3" / 76mm PUMP C/W HOSES	week	##
A356.3	6" / 152mm PUMP C/W HOSES	week	##
A356.4	E/O PUMP HOSE 3" / 76mm (flexible)	/m/week	##
A356.5	E/O PUMP HOSE 6" / 152mm (flexible)	/m/week	##
	PORTABLE PUMPS:		
A356.6	2" / 51mm PUMP C/W HOSES	week	##
A356.7	3" / 76mm PUMP C/W HOSES	week	##
A356.8	6" / 152mm PUMP C/W HOSES	week	##
A356.9	E/O PUMP HOSE 3" / 76mm (flexible)	/m/week	##
A356.10	E/O PUMP HOSE 6" / 152mm (flexible)	/m/week	##

Schedule 1, General Items

MECHANICAL PLANT NOT INCLUDED IN RATES

Code	Description	Unit	Rate
A334	ROLLERS AND COMPACTORS	week	##
A334.1	Vibrating Plate Compactor up to 300kg	week	##
A334.2	Vibratory pedestrian operated (twin roller) up to 950kg	week	##
A334.3	Vibratory pedestrian operated (twin roller) up to 1750kg	week	##
A334.4	Self propelled vibratory tandem (seated Roller up to 2.5T	week	##
A334.5	Self propelled vibratory tandem (seated Roller up to 9 T	week	##
A339.5	STIHL SAWS – including blades	week	##
A328.29	WHEELWASH – to remove mud, dirt etc from underneath and sides of HGV type vehicles leaving site onto public roads	week	##
A325.1	TRACTOR & TRAILER	week	##
	TELESCOPIC HANDLERS		
A325.2.1	2.5 Tonnes	week	##
A325.2.2	4 Tonnes	week	##
A325.2.3	6 Tonnes	week	##
A325.2.4	8 Tonnes	week	##
	CONCRETE PUMPS		
	Max output not exceeding 100m ³ /hour		
A336.1	Boom reach 20 to 30m VISIT CHARGE	nr	##
A336.2	WORKING RATE	day	##
A336.3	Boom reach 30 to 40m VISIT CHARGE	nr	##
A336.4	WORKING RATE	day	##
A336.5	Boom reach 40 to 50m VISIT CHARGE	nr	##
A336.6	WORKING RATE	day	##
A336.7	Additional Piping per 3m length 102mm diameter	nr	##
A336.8	Additional Piping per 3m length 127mm diameter	nr	##
A336.9	Additional Piping per 3m length 152mm diameter	nr	##
A339.6	<u>EXCAVATORS</u> (Service machines & other)		
A339.6.1	360° EXCAVATOR 1t	week	##
A339.6.2	360° EXCAVATOR 3t	week	##
A339.6.3	360° EXCAVATOR 4t	week	##
A339.6.4	360° EXCAVATOR 6t	week	##
A339.6.5	360° EXCAVATOR 11t	week	##
A339.6.6	360° EXCAVATOR 14t	week	##
A339.6.7	360° EXCAVATOR 17t	week	##
A339.6.8	360° EXCAVATOR 21t	week	##
A339.6.9	360° LONG REACH EXCAVATOR 25t	week	##
A339.6.10	HYDRAULIC BACKHOE JCB 3CX type	week	##
A325.3	TRAILER 20t	week	##
A339.7	DUST SURPRESSION TO ACCESS TRACKS – site mobile plant	week	##

and equipment

Schedule 1, General Items

NON-MECHANICAL PLANT NOT INCLUDED IN RATES

Code	Description	Unit	Rate
A339.8	BARROW HOIST	week	##
A339.9	VACUUM SUCTION UNIT ROAD VEHICLE FOR REMOVAL OF WET SILT, CAPACITY 6M ³ PER VISIT, LIFT HEIGHT 6M One visit = 1 nr. To include for all disposal assuming non hazardous material, within distance of 50 Km	nr	##
A359.1	ROAD PLATES	week	##
A359.2	ROAD FORMS	week	##
A328.2	FUEL TANKS 750gall	week	##
A328.3	BUNDED FUEL BOWSER 250 gall / 1,500 litres	week	##
A328.4	BUNDED FUEL BOWSER 500 gall / 3,000 litres	week	##
A322.1	WATER BOWSER 250gall / 1,500 litres	week	##
A322.2	WATER BOWSER 500gall / 3,000 litres	week	##
A339.8	SLINGS/CHAINS/ETC	week	##
A328.5	CABLE DETECTOR & GENERATOR	week	##
A328.6.1	WASTE SKIPS 6m ³ /8yd ³ . Drop off, remove + all associated costs. INERT WASTE SKIPS	nr	##
A328.6.2	NON-HAZARDOUS WASTE SKIPS	nr	##
A328.6.3	HAZARDOUS WASTE SKIPS	nr	##
A328.7	SAFETY EQUIPMENT	week	##
A328.8	GAS DETECTOR	week	##
A328.9	NOISE MONITORING SYSTEM	week	##
A328.10	VIBRATION MONITORING SYSTEM	week	##
A328.11	FIRE CONTROL	week	##
A328.12	LOCAL NOISE BARRIERS – to shield plant & equipment	week	##
A328.13	POLLUTION CONTROL/EQUIPMENT	week	##
A328.14	SPILL KIT	week	##

Schedule 1, General Items

INSTRUMENTS

Code	Description	Unit	Rate
A328.15	EDM	week	##
A328.16	THEODOLITE	week	##
A328.17	LEVEL	week	##
A328.18	STAFF	nr	##
A328.19	TRENCH LASER	week	##

PLANT YARD COSTS

Code	Description	Rate
A722	All plant yard costs to be included in the rates for plant and for works	N/A

PLANT TRANSPORT

CODE	DESCRIPTION	Rate
A723	DIRECT PLANT – costs of transporting to and from site is to be included in the rates	N/A
A724	MECHANICAL PLANT NOT INC. IN RATES – costs of transporting to and from site is to be included in the rates	N/A
A725	NON-MECHANICAL PLANT NOT INC. IN RATES – costs of transporting to and from site is to be included in the rates	N/A

Code	Description	Unit	Rate
A326.1	PERSONNEL TRANSPORT VANS	week	##
A326.2	PICK-UP	week	##
A326.3	TRANSIT VAN	week	##
A326.4	LANDROVER (LWB)	week	##

Schedule 1, General Items

**SITE STAFF
SUPERVISION & LABOUR**

CODE	DESCRIPTION		UNIT	RATE
A371.1	Sub Agent		week	##
A371.2	General Foreman		week	##
A373.1	Front Line Ganger		week	##
A373.2	General Duties Operative	Stores, materials handling, etc	week	##
A371.3	Engineer		week	##
A373.3	Chainman		week	##
A373.4	Banksman, flagman		week	##
A373.5	Helmsman		week	##
A373.6	Multi-skilled Operative		week	##
A373.7	Drivers for site plant	Site dumpers Telehandlers etc Excludes hire plant supplied with drivers	week	##
A373.8	Operative/labourer	Basic	week	##
A323.1.1	Site based security	Outside of site working hours of 45 per week. Security required for 123 hours/week	week	##
A323.1.2	E/O for Bank Holidays site based security		day	##
A323.2.1	Visiting security	Outside site working hours, minimum of 3 visits/night	week	##
A323.2.2	E/O for Bank Holidays visiting security		day	##

Schedule 1, General Items

SITE HARDSTANDINGS, COMPOUND AREA

This is deemed to include for all ancillary equipment necessary to run the compound, including storage areas, loading & unloading areas, parking areas, cabin areas, turning areas, access off the public highway, etc.

Code	Description		Unit	Rate
A273.1	Hardstanding & compound areas including geotextile liner and imported granular material; DTP Spec. Type 1; Average depth 250mm:	Install, including all excavation, storage of topsoil on site and removal of excavated material from site	m ²	##
A273.2		Maintain	m ² /wk	##
A273.3		Remove, including all excavation, removal of excavated material and geotextile liner from site, filling with imported subsoil and excavated topsoil and all other necessary making good & reinstatement	m ²	##
A273.4	Hardstanding & compound areas including geotextile liner and imported granular material; Recycled aggregates; Average depth 250mm: Grading as Type 1	Install, including all excavation, storage of topsoil on site and removal of excavated material from site	m ²	##
A273.5		Maintain	m ² /wk	##
A273.6		Remove, including all excavation, removal of excavated material and geotextile liner from site, filling with imported subsoil and excavated topsoil and all other necessary making good & reinstatement	m ²	##
A273.7	Geogrid reinforcement, plastics	Light duty (eg Tensar SS20)	m ²	##
A273.8		Medium duty (eg Tensar SS30)	m ²	##
A273.9		Heavy duty (eg Tensar SS40)	m ²	##
<u>Fencing & Gates</u>				
A323.3.1	Secure fencing to compound area, "Heras" type fence panels (or other suitable) fixed securely together. 2m nominal height	Installation	m	##
A323.3.2		Maintenance	m/wk	##
A323.3.3		Removal	m	##
A323.4.1	Gates for secure access & egress. 2m nominal height, 5m nominal width	Installation	m	##
A323.4.2		Maintenance	m/wk	##
A323.4.3		Removal	m	##

Schedule 1, General Items

SITE SET UP

Deemed to include all necessary plant, equipment & support to run a modern, secure site set up.

This includes welfare, messing, drying, all services, office equipment, communications, health & safety, sanitation & drainage, water, electricity, cleaning, maintenance, signage, access/egress controls, consumables, waste management, generators, etc.

All ancillary work, including labour & plant, associated with setting up the facility is deemed to be included.

Office & facilities to be shared between *Supplier & Employer*, unless otherwise expressly stated in the Works Information.

Code	Description		Unit	Rate
A319.1.1	<u>Type A, small</u>	Install	item	##
A319.1.2		Maintain	week	##
A319.1.3		Remove	item	##
	Size Parameters: Site office 10m ² Security store Mess & welfare facility Toilet block Drying room Equipment & facilities			
A319.2.1	<u>Type B, medium</u>	Install	item	##
A319.2.2		Maintain	week	##
A319.2.3		Remove	item	##
	Size Parameters: Site office + meeting room, 25 m ² o/a 2 Security stores Mess & welfare facility Toilet block Drying room Equipment & facilities			
A319.3.1	<u>Type C, large</u>	Install	item	##
A319.3.2		Maintain	week	##
A319.3.3		Remove	item	##
	Size Parameters: 2 Site offices + meeting room, 50 m ² o/a 3 Security stores Large Mess & welfare facility Toilet block Drying room Equipment & facilities			
A319.4.1	<u>Type D, special, all-in-one Unit</u>	Install	item	##
A319.4.2		Maintain	week	##
A319.4.3		Remove	item	##
	To include: All-in-one, (office welfare sanitation, etc.) Security Store Equipment & facilities			
	<u>E/O Costs for additions</u>			
A311.1	Site office (medium)	Install	item	##
A311.2		Maintain	week	##
A311.3		Remove	item	##
A314.1	Security store (6m x 2.5m)	Install	item	##
A314.2		Maintain	week	##

A314.3		Remove	item	##
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Schedule 1, General Items

SITE SET UP – continued

Code	Description		Unit	Rate
A315.1.1	Mess & welfare facility (medium)	Install	item	##
A315.1.2		Maintain	week	##
A315.1.3		Remove	item	##
A315.2.1	Toilet block (medium)	Install	item	##
A315.2.2		Maintain	week	##
A315.2.3		Remove	item	##
A328.20	Lighting to site compound type A	Install	item	##
A328.21		Maintain	week	##
A328.22		Remove	item	##
A328.23	Lighting to site compound type B	Install	item	##
A328.24		Maintain	week	##
A328.25		Remove	item	##
A328.26	Lighting to site compound type C	Install	item	##
A328.27		Maintain	week	##
A328.28		Remove	item	##
<u>Mobile Welfare Van</u>				
A327.1	Mobile welfare van for short duration advance works or similar	All in	day	##
<u>Security Hardware</u>				
A323.5	Site security camera system, cctv, 3 no. cameras & recorders etc. To operate over the site compound area, monitor located in the site office	Install & remove	item	##
A323.6		Hire & maintain	week	##
A323.7	CCTV to cover site working areas, 3 no. cameras & recorders, etc.	Install & remove	item	##
A323.8		Hire & maintain	week	##

Schedule 1, General Items

TEMPORARY WORKS (INC REMOVAL)

ACCESS TRACKS

Code	Description		Unit	Rate
	<u>Stone Tracks</u>			
A353.1.1	Temporary access road including geotextile liner and filling with imported granular material; DTp Spec. Type 2; Depth 0 - 250mm:	Install, including all excavation, storage of topsoil on site and removal of excavated material from site	m ²	##
A353.1.2		Maintain	m ² /wk	##
A353.1.3		Remove, including all excavation, removal of excavated material and geotextile liner from site, filling with imported subsoil and excavated topsoil and all other necessary making good & reinstatement	m ²	##
A353.1.4	Temporary access road including geotextile liner and filling with imported granular material; Recycled aggregates; Depth 0 - 250mm: Grading as Type 2	Install, including all excavation, storage of topsoil on site and removal of excavated material from site	m ²	##
A353.1.5		Maintain	m ² /wk	##
A353.1.6		Remove, including all excavation, removal of excavated material and geotextile liner from site, filling with imported subsoil and excavated topsoil and all other necessary making good & reinstatement	m ²	##
A353.2.1	Temporary access road including geotextile liner and filling with imported granular material; DTp Spec. Type 2; Depth 250 - 500mm:	Install, including all excavation, storage of topsoil on site and removal of excavated material from site	m ²	##
A353.2.2		Maintain	m ² /wk	##
A353.2.3		Remove, including all excavation, removal of excavated material and geotextile liner from site, filling with imported subsoil and excavated topsoil and all other necessary making good & reinstatement	m ²	##

Schedule 1, General Items

TEMPORARY WORKS - ACCESS TRACKS

Continued

Code	Description		Unit	Rate	
A353.2.4	Temporary access road including geotextile liner and filling with imported granular material; Recycled aggregates; Depth 250 - 500mm: Grading as Type 2	Install, including all excavation, storage of topsoil on site and removal of excavated material from site	m ²	##	
A353.2.5		Maintain	m ² /wk	##	
A353.2.6		Remove, including all excavation, removal of excavated material and geotextile liner from site, filling with imported subsoil and excavated topsoil and all other necessary making good & reinstatement	m ²	##	
A353.3	Double handling material for access road	Up to 250 mm track depth	m ²	##	
A353.4	Double handling material for access road	250 to 500 mm track depth	m ²	##	
A353.5.1	Geogrid reinforcement, plastic	Light duty (eg Tensar SS20)	m ²	##	
A353.5.2		Medium duty (eg Tensar SS30)	m ²	##	
A353.5.3		Heavy duty (eg Tensar SS40)	m ²	##	
<u>Portable Access Track</u>					
<u>Track Units, metal</u>					
A353.6.1	Eve Trakway, TPA or equivalent Typical area 250 m long x 3 m wide with passing bays	Install	m ²	##	
A353.6.2		Maintain	m ² /wk	##	
A353.6.3		Remove	m ²	##	
A353.6.4		Damage allowance	m ²	##	
A353.6.5		Making good after removal	m ²	##	
A353.6.6		Percentage rate change for tracks up to 500m long	Plus or minus	%	##
A353.6.7		Percentage rate change for tracks up to 750m long	Plus or minus	%	##
A353.6.8	Percentage rate change for tracks up to 1000m long	Plus or minus	%	##	
A353.6.9	Site strip for track units		m ³	##	
A353.6.10	Ground preparation for track units		m ²	##	

Schedule 1, General Items

TEMPORARY WORKS - ACCESS TRACKS

Continued

Code	Description		Unit	Rate
	<u>Timber Bog Mats</u> Rates to include for all ground preparation works etc.			
A353.7.1	Typical area 250m long x 4 m wide	Install	m ²	##
A353.7.2		Maintain	m ² /week	##
A353.7.3		Remove	m ²	##
A353.7.4		Damage allowance	m ²	##
A353.7.5		Making good after removal	m ²	##
A353.7.6	Percentage rate change for tracks up to 500m long	Plus or minus	%	##
A353.7.7	Percentage rate change for tracks up to 750m long	Plus or minus	%	##
A353.7.8	Percentage rate change for tracks up to 1000m long	Plus or minus	%	##
	<u>Fencing</u>			
A353.8.1	Temporary fencing to access road to BS 1722: PVC orange mesh with metal spikes.	Install	m	##
A353.8.2		Maintain	m/week	##
A353.8.3		Remove	m	##
A353.8.4	Temporary fencing to access road to BS 1722: Stock proof, post and three rail with wire mesh, 1.2m height	Install	m	##
A353.8.5		Maintain	m/week	##
A353.8.6		Remove	m	##
	<u>Miscellaneous</u>			
A353.9.1	Supply, lay, compact Dot Type 1 graded stone for upgrading existing surfaces & tracks, filling potholes, overlay etc. depth 75mm - 150mm.		m ²	##
A353.9.2	Supply, lay, compact recycled or reclaimed Type 1 graded stone for upgrading existing stone surfaces & tracks, filling potholes etc. depth 75mm - 150mm.		m ²	##

Schedule 1, General Items

TEMPORARY WORKS (Continued)

Code	Description		Unit	Rate
A367	<u>Barriers, Protection & Warning</u>			
A367.1	Close boarded Heras fence including all ties & bracing etc	Install	m	##
A367.2		Maintain	week	##
A367.3		Remove	m	##
A367.4	Edge protection to Lock chamber; self supporting (no drilling & fixing to lock edges) including all ties & bracing etc	Install	m	##
A367.5		Maintain	week	##
A367.6		Remove	m	##
A367.7	O/H line goal posts, including signs etc. per set	Install	item	##
A367.8		Maintain	week	##
A367.9		Remove	item	##
	<u>Scaffolding</u>			
A361.1	Access Work Tower 4m high, in lock chamber, dished invert, including stairs, ladders, work platforms at 2m heights, etc	Install	item	##
A361.2		Maintain	week	##
A361.3		Remove	item	##
A361.4	Access Work Tower 6m high, in lock chamber, including stairs, ladders, work platforms at 2m heights, etc	Install	item	##
A361.5		Maintain	week	##
A361.6		Remove	item	##
A361.7	Lock Chamber side wall access & work scaffold system, 6m deep by 20m long capable of taking debris from breakout and bricks stored for wall repairs	Install	item	##
A361.8		Maintain	week	##
A361.9		Remove	item	##
A361.10	Tenting to lock wall scaffolding 6m high by 20m long for protection against weather, install, maintain, remove	All inc.	week	##
A361.11	Access scaffold work tower, general purpose, 2m x 2m in plan x 5m high	Install	item	##
A361.12		Maintain	week	##
A361.13		Remove	item	##

Schedule 1, General Items

TEMPORARY WORKS (Continued)

Code	Description		Unit	Rate
A356	<u>Over Pumping & Dewatering</u>	Rates to include weekends		
A356.4.1	150mm Submersible pump	Hire	week	##
A356.4.2		Hose	m/week	##
A356.4.3		Running cost / working hour	hr	##
A356.4.4		Maintain	week	##
A356.5.1	200mm Submersible pump	Hire	week	##
A356.5.2		Hose	m/week	##
A356.5.3		Running cost / working hour	hr	##
A356.5.4		Maintain	week	##
A357.1.1	Erosion control measures to canal bed & banks at water egress points	Install	item	##
A357.1.2		Maintain	week	##
A357.1.3		Remove	item	##
A355	<u>Temporary Dams & Associated Items</u>			
	These items are to include all necessary silt screens and barriers to control suspended solids arising from the installation			
A355.1.1	Clay in bulk, typical quantity 350m ³ To form 2 canal dams Includes all preparatory works etc	Install	m ³	##
A355.1.2		Remove	m ³	##
A355.1.3		Maintain	week	##
A355.2.1	Flexible Dams 2 no. Nominal dims. 10 to 15m wide x 2 m deep, approx Includes all preparatory works etc	Install	item	##
A355.2.2		Remove	item	##
A355.2.3		Maintain	week	##
A355.2.4	Flume system between flexible dams For 7.5 mgl/24 hours	Install	item	##
A355.2.5		Remove	item	##
A355.2.6		Maintain	week	##

Schedule 1, General Items

TEMPORARY WORKS (Continued)

Code	Description		Unit	Rate
A355 A355.3.1	Stop planks Stop planks, free issue from <i>Employer</i> . Deemed to include all necessary <i>Supplier's</i> checks under health & safety requirements. Install includes for cill clearance. Nominal canal width 3m to 5m.	Install	item	##
A355.3.2 A355.3.3		Remove Maintain	item week	## ##
A355.3.4	Local sealing to stop planks with tarpaulins, soil, clay or sand bags, etc		item	##
A355.3.5	Dive Team to assist in stop plank installation, sealing works & removal Compliant with BW Diving Directive & procedures		day	##
A355.4.1	Floating Boom Floating timber baulks across canal, chained together & anchored to the bank each side Nominal canal width 10 to 15m. Purpose: To catch stray craft	Install	item	##
A355.4.2 A355.4.3		Remove Maintain	item week	## ##
A355.5.1	Miscellaneous Imported puddle clay for use in localised bund formation, sealing works etc. Notional quantity 10m ³	Install	m ³	
A355.5.2	Imported puddle clay for use in localised bund formation, sealing works etc.	Remove	m ³	

Schedule 1, General Items

TEMPORARY WORKS (continued)

Code	Description		Unit	Rate
	<u>Working off Water</u>			
	Including all signage, lighting, safety systems, stability checks, etc			
A359.3.1	Powered Tug Boat	Deliver/collect	item	##
A359.3.2		Hire	week	##
A359.3.3		Fuel	week	##
	Pontoons, Uniflote type or equivalent			
A359.4.1	Pontoon type 1 Size: 4no. Units, 2.4m x 4.8m each unit	Deliver/collect	item	##
A359.4.2		Hire	week	##
A359.4.3	Pontoon type 2 Size: 9no. Units, 2.4m x 4.8m each unit	Deliver/collect	item	##
A359.4.4		Hire	week	##
A359.4.5	Pontoon type 3 Size: 16no. Units, 2.4m x 4.8m each unit	Deliver/collect	item	##
A359.4.6		Hire	week	##
A359.4.7	Open floating Hopper (dumb barge) Approx capacity 100 tonnes	Deliver/collect	item	##
A359.4.8		Hire	week	##
A359.4.9	Addition per unit 2.4m x 4.8m	Deliver/collect	item	##
A359.4.10		Hire	week	##
A359.5.1	Work boat	Deliver/collect	item	##
A359.5.2		Hire	week	##
A359.6.1	Safety Boat	Deliver/collect	item	##
A359.6.2		Hire	week	##

Schedule 1, General Items

TEMPORARY WORKS Continued

CODE	DESCRIPTION		UNIT	RATE
A359.7.1	Weather Measures Protection of formation & constructed surfaces from cold, freezing, wet, windy, hot, drying etc. conditions	Polyethylene sheeting, insulating mats, wet hessian, etc	week	##
A359.7.2	Heating equipment, including fuel	For local temperature raising at the work face when using mortar for walls	/unit/week	##
A359.7.3	Small protective canopy/enclosure, 3m x 3m	For local working area protection	week	##

Temporary Works Not Included:

- Propping to lock walls
- Arch bridge soffit support systems
- General scaffolding
- Stream & river crossings
- Bridging systems
- Cofferdams
- Well point groundwater dewatering
- Large protective canopies with scaffold supports or similar for lock chambers, bridges, large working areas etc.
- Confined space air quality & control systems
- Generic items for works in Tunnels

Etc....

MISCELLANEOUS ITEMS

Code	Description		Unit	Rate
A336.10	E/O Cost for concrete in small or part loads	3m ³ or less, provision	m ³	##
A336.11	E/O Cost for pump mix concrete	Strength 20 N/mm ²	m ³	##
A336.12		30 N/mm ²	m ³	##
A336.13		40 N/mm ²	m ³	##
	Surveys			
A329.1	Structural survey		day	##
A329.2	Diving survey		day	##
A329.3	Canal draft & bed survey		day	##
A329.4	Supplier's Supervision		day	##
A372	Fish rescue team	Transfer fish to adjacent canal section in water	day	##

Schedule 1, General Items

TESTING

CODE	DESCRIPTION	UNIT	RATE
A251.1	EARTHWORKS MATERIALS: GRADING	no	##
A251.2	MC/MCV	no	##
A251.3	10% FINES	no	##
A251.4	OMC/MC	no	##
A251.5	10% FINES	no	##
A251.6	SOLUBLE SULPHATE	no	##
A251.7	PL	no	##
A251.8	LL	no	##
A251.9	BULK DENSITY	no	##
A251.10	CHEMICAL ANALYSIS	no	##
	NUCLEAR DENSITY	no	##
A251.11	IN SITU SOIL DENSITY GAUGE		
A251.12	IN SITU SOIL DENSITY SAND REPLACEMENT	no	##
A252.1	SURFACING: FIELD DENSITY	no	##
A252.2	GRADING	no	##
A252.3	TEXTURE DEPTH	day	##
A252.4	COATED CHIPPINGS	no	##
A252.5	TEXTURE DEPTH	no	##
A252.6	PRD'S	no	##
A252.7	CORES	no	##
A252.8	FLAKINESS INDEX	no	##
A252.9	BINDER CONTENT	no	##
A253.1	CONCRETE: TRIAL MIX	no	##
A253.2	CUBES	no	##
A253.3	CUBES (INC. DENSITY)	no	##
A253.4	AIR ENTRAINMENT	day	##
A256.1	PIPELINES: PRESSURE TESTING	m	##
A256.2	VESSELS & TANKS: WATER TESTS	no	##
A256.3	BEARING TESTS: CBR TEST	no	##
A256.4	BEARING CAPACITY TEST	no	##
A257.1	BRICKWORK SAMPLE TEST PANEL	no	##
A257.2	MASONRY SAMPLE REPOINTING PANEL, RUBBLE MASONRY	no	##

End of GENERAL ITEMS Section, Schedule 1

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<p><u>Grouting</u></p> <p>Grouting costs are worked up from the various elements of the operations involved. The work is usually of a specialist nature, undertaken by a grouting Contractor. Inclusion of grouting costs within a target cost should follow the subcontract quotation procedure as laid out elsewhere in these schedules.</p> <p>Quotation costs will allow for the following items:-</p> <ul style="list-style-type: none"> • Establishment, maintenance and removal of drilling plant • Drilling for grout holes • Establishment, maintenance and removal of grout mixing and injection plant. • Water flush through grout holes to remove silt, soil, debris etc. • Grout materials. • Injection of grout <ul style="list-style-type: none"> Stage 1 Stage 2 etc • Making good to grout holes on completion • Removal of all arisings from grouting operations • Other costs as necessary or required 		

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
<u>Demolition & Site Clearance</u>			
D111	General clearance	ha	##
D211	Removal of trees girth 500mm – 1m	nr	##
D221	Ditto girth 1 – 2m	nr	##
D231	Ditto girth 2 – 3m	nr	##
D241	Ditto girth 3 – 5m	nr	##
D251	Ditto girth exceeding 5m	nr	##
D311	Removal of stumps diameter 150 – 500mm	nr	##
D321	Ditto 500mm – 1m	nr	##
D331	Ditto exceeding 1m	nr	##
D711	Removal of hedges including root ball	m	##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
<u>Earthworks</u>			
<u>Excavation for foundations</u>			
E311	Topsoil maximum depth: not exceeding 0.25m	m ³	£##
E312	Topsoil maximum depth: 0.25 to 0.50m	m ³	£##
E321	Material other than topsoil, rock or artificial hard material: maximum depth; not exceeding 0.25m	m ³	£##
E322	Material other than topsoil, rock or artificial hard material: maximum depth; 0.25 to 0.50m	m ³	£##
E323	Material other than topsoil, rock or artificial hard material: maximum depth; 0.50 to 1.00m	m ³	£##
E324	Material other than topsoil, rock or artificial hard material: maximum depth; 1.00 to 2.00m	m ³	£##
E325	Material other than topsoil, rock or artificial hard material: maximum depth; 2.00 to 5.00m	m ³	£##
E341.1	Excavation of artificial hard material exposed at the commencing surface: plain concrete, maximum depth not exceeding 0.25m	m ³	£##
E341.2	Excavation of artificial hard material exposed at the commencing surface: reinforced concrete, maximum depth not exceeding 0.25m	m ³	£##
E341.3	Excavation of artificial hard material exposed at the commencing surface: macadam, maximum depth not exceeding 0.25m	m ³	£##
<u>General Excavation:</u>			
E411.1	Topsoil maximum depth: not exceeding 0.25m	m ³	£##
E412.1	Topsoil maximum depth: 0.25 to 0.50m	m ³	£##
E421.1	Material other than topsoil, rock or artificial hard material: maximum depth; not exceeding 0.25m	m ³	£##
E422.1	Material other than topsoil, rock or artificial hard material: maximum depth; 0.25 to 0.50m	m ³	£##
E423.1	Material other than topsoil, rock or artificial hard material: maximum depth; 0.50 to 1.00m	m ³	£##
E424.1	Material other than topsoil, rock or artificial hard material: maximum depth; 1.00 to 2.00m	m ³	£##
E425.1	Material other than topsoil, rock or artificial hard material: maximum depth; 2.00 to 5.00m	m ³	£##
E441.1	Excavation of artificial hard material exposed at the commencing surface: plain concrete, maximum depth not exceeding 0.25m	m ³	£##
E441.2	Excavation of artificial hard material exposed at the commencing surface: reinforced concrete, maximum depth not exceeding 0.25m	m ³	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
E441.3	Excavation of artificial hard material exposed at the commencing surface: macadam, maximum depth not exceeding 0.25m	m ³	£##
E441.4	Excavation of artificial hard material exposed at the commencing surface: existing concrete/ brick coping to canal wall, maximum depth not exceeding 0.25m	m ³	£##
E422.2	Excavation of canal silt depth 0.25 to 0.5 m, canal dewatered	m ³	£##
E423.2	Excavation of canal silt depth 0.5 to 1.0 m, canal dewatered	m ³	£##
E442	Excavation of artificial hard material exposed at the commencing surface: existing brick/stone canal wall, maximum depth 0.25 – 0.5m	m ³	£##
E443	Excavation of artificial hard material exposed at the commencing surface: existing brick/stone canal wall, maximum depth 0.5 – 1m	m ³	£##
E444	Excavation of artificial hard material exposed at the commencing surface: existing brick/stone canal wall, maximum depth 1 – 2m	m ³	£##
E454	Excavation of artificial hard material not exposed at the commencing surface; existing brick/stone canal structure, maximum depth 1 – 2m	m ³	£##
E455	Excavation of artificial hard material not exposed at the commencing surface; existing brick/stone canal structure, maximum depth 2 – 5m	m ³	£##
	<u>Excavation ancillaries:</u>		
E511.1	Trimming of excavated surfaces; topsoil	m ²	£##
E511.2	Trimming of excavated surfaces; topsoil; inclined at an angle 10 - 45 degrees to the horizontal	m ²	£##
E512.1	Trimming of excavated surfaces; material other than topsoil, rock or artificial hard material	m ²	£##
E512.2	Trimming of excavated surfaces; material other than topsoil, rock or artificial hard material; inclined at an angle 10 - 45 degrees to the horizontal	m ²	£##
E521	Preparation of excavated surfaces; topsoil	m ²	£##
E522.1	Preparation of excavated surfaces; material other than topsoil, rock or artificial hard material	m ²	£##
E522.2	Preparation of excavated surfaces; material other than topsoil, rock or artificial hard material; inclined at an angle 10 - 45 degrees to the horizontal	m ²	£##
E522.3	Preparation of excavated surfaces; existing type 1 sub base	m ²	£##
E531	Disposal of excavated material; topsoil	m ³	£##
E532.1	Disposal off site of excavated material other than topsoil, rock or artificial hard material, non-hazardous waste. Rate to exclude any Tax levies	m ³	£##
E532.2	Disposal of excavated silt on site to a designated area within a distance of 500m.	m ³	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
E532.3	Disposal of excavated silt off site to an authorised tip within a distance of 50 km. Silt in "dry" condition, non-hazardous waste. Rate to exclude any Tax levies	m ³ /km	£##
E532.4	Transfer of excavated untreated silt off site to a special facility (Hub) for drying and treatment, within a distance of 200 km.	m ³ /km	£##
E532.5	Disposal on site of excavated material other than topsoil, rock or artificial hard material, non-hazardous waste	m ³	£##
E534.1	Disposal of excavated material on site, concrete, brickwork, stone, etc	m ³	£##
E534.2	Disposal of excavated material off site, concrete, brickwork, stone, etc, non-hazardous waste. Rate to exclude any Tax levies	m ³	£##
<u>Double Handling</u>			
E542.1	Double handling of silt following excavation, prior to drying out	m ³	£##
E542.2	Double handling of excavated silt following storage on site and drying out	m ³	£##
E542.3	Double handling of concrete, brickwork, stone etc.	m ³	£##
E542.4	Double handling of excavated material other than topsoil, rock or artificial hard material	m ³	£##
E542.5	Double handling of excavated topsoil	m ³	£##
<u>Excavation below the final surface</u>			
E560	Excavation of material below the Final Surface and replacement with well compacted granular material or lean mix concrete	m ³	£##
<u>Filling: to structures</u>			
E611	Excavated topsoil	m ³	£##
E613	Non-selected excavated material other than topsoil or rock	m ³	£##
E614	Selected excavated material other than topsoil or rock	m ³	£##
E617	DoT Type 1 granular sub base	m ³	£##
<u>Filling: to embankments</u>			
E621	Excavated topsoil	m ³	£##
E623	Non-selected excavated material other than topsoil or rock	m ³	£##
E624	Selected excavated material other than topsoil or rock	m ³	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
E627	DoT Type 1 granular sub base	m ³	£##
	<u>Filling: general</u>		
E631	Excavated topsoil	m ³	£##
E633	Non-selected excavated material other than topsoil or rock	m ³	£##
E634	Selected excavated material other than topsoil or rock	m ³	£##
	<u>Filling: general; imported natural material:</u>		
E615.1	Puddle clay fill to gap between new sheet piles and original canal bank, width varies	m ³	£##
E635	Puddle clay fill to trenches 600mm wide, up to 2m deep	m ³	£##
E645	Puddle claying lining to canal; average 600mm thick	m ²	£##
E615.2	Filling with imported well graded stone, 50mm down, between new steel piles and original bank, gap width varies	m ³	£##
E633.2	Filling with excavated silt behind pile line/bank protection or to bank either side of towpath. Non selected excavated material other than topsoil or rock	m ³	£##
	<u>Filling: general; imported reclaimed granular material:</u>		
E619	Filling with imported well graded reclaimed stone, 50 mm down to dust, between new steel piles and original canal bank	m ³	£##
E639	Filling with imported well graded reclaimed stone, 75 mm down to dust (not DoT type 1).	m ³	£##
E637.1	Filling with imported well graded reclaimed stone, DoT type 1 compliant	m ³	£##
	<u>Filling: general; imported rock:</u>		
E637.2	Filling with graded stone fill, 75 mm down to dust. (not DoT type 1)	m ³	£##
E637.3	Rip Rap Stone (E.6.3.7) hard, angular, well graded: Grading 25 to 450mm, layer thickness 750mm	m ³	£##
E637.4	Grading 75 to 600mm, layer thickness 900mm	m ³	£##
E637.5	Grading 150 to 750mm, layer thickness 1200mm	m ³	£##
E637.6	Grading 250 to 900mm, layer thickness 1500mm	m ³	£##
	<u>Filling: general; imported artificial material:</u>		
	<u>Lightweight Fill Materials:</u>		
E638.1	High Density Polystyrene block fill	m ³	£##
E638.2	Medium Density Polystyrene block fill	m ³	£##
E638.3	12mm Diameter lightweight pellet fill, "Lytag" or similar	m ³	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
E638.4	25mm Diameter lightweight pellet fill, "Lytag" or similar	m ³	£##
	<u>Filling Ancillaries</u>		
E711	Trimming of filled surfaces; topsoil	m ²	£##
E712.1	Trimming of filled surfaces; material other than topsoil, rock or artificial hard material	m ²	£##
E712.2	Trimming of filled surfaces; puddle clay fill and linings etc.	m ²	£##
E713	Trimming of filled surfaces; rip rap surface	m ²	£##
	Geotextile layer; non-woven (eg Terram or similar material)	m ²	£##
E730.1	500 gauge	m ²	£##
E730.2	1000 gauge	m ²	£##
E730.3	2000 gauge	m ²	£##
	Geotextile layer; woven (eg Lotrak or similar material)		
E730.4	Weight : 80g/m2	m ²	£##
E730.5	Weight :100g/m2	m ²	£##
E730.6	Weight : 120g/m2	m ²	£##
E730.7	Weight : 140g/m2	m ²	£##
E730.8	Weight : 160g/m2	m ²	£##
	Geotextile layer; geogrid (eg Tensar or similar material)		
E730.9	SS 20	m ²	£##
E730.10	SS 30	m ²	£##
E730.11	SS 40	m ²	£##
	<u>Landscaping</u>		
E810.1	Turfing : meadow turf	m ²	£##
E810.2	Turfing : lawn turf	m ²	£##
E820.1	Hydraulic mulch grass seeding : nominal area exceeding 5000m2	m ²	£##
E820.2	Hydraulic mulch grass seeding : per day visit	day	£##
E830.1	Grass seeding : normal urban mix ; parkland areas	m ²	£##
E830.2	Grass seeding : normal rural mix ; meadow areas	m ²	£##
E830.3	Grass seeding : wildflower mix	m ²	£##
E872.1	Hedges : mixed, double row : hawthorn/dog rose/blackthorn ; dug soil / compost / water : medium plants and mulch	m	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
E879.1	Hedge fence : rabbit wire fence and posts, 1m height nominal	m	£##
<u>Towpath Works (specifically & solely)</u>			
E421.2	General Excavation, material other than topsoil, rock or artificial hard material, maximum depth not exceeding 0.25m:	m ³	£##
E441.5	General Excavation, artificial hard material, maximum depth not exceeding 0.25m, concrete, brickwork:	m ³	£##
E532.6	Excavation Ancillaries, Disposal of excavated material, material other than topsoil, rock or artificial hard material, Disposal on site, spread behind new paths	m ³	£##
E536	Excavation Ancillaries, Disposal of excavated material, material other than topsoil, rock or artificial hard material, removed from site (within 50km). Disposal off site. Non hazardous waste, treatment not required.	m ³	£##
E522.4	Preparation of excavated surfaces	m ²	£##
<u>Excavation by Hand:</u>			
The following items are for small quantities not in excess of 10m ³			
E411.2	Hand excavation of topsoil depth not exceeding 0.25m	m ³	£##
E412.2	Hand excavation of topsoil depth 0.25 – 0.5mm	m ³	£##
E421.3	Hand excavation, material other than topsoil, rock or artificial hard material, depth not exceeding 0.25m	m ³	£##
E422.3	Hand excavation, material other than topsoil, rock or artificial hard material, depth 0.25 – 0.5m	m ³	£##
E423.3	Hand excavation, material other than topsoil, rock or artificial hard material, depth 0.5 – 1.0m	m ³	£##
E424.2	Hand excavation, material other than topsoil, rock or artificial hard material, depth 1.0 – 2.0m	m ³	£##
E441.6	Hand excavation, artificial hard material, depth not exceeding 0.25m, concrete, brickwork	m ³	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
<u>In Situ Concrete</u>			
<u>Provision of concrete; designed mix</u>			
F213.1	Grade C7.5; 20mm aggregate	m ³	£##
F223.1	Grade C10; 20mm aggregate	m ³	£##
F233.1	Grade C15; 20mm aggregate	m ³	£##
F243.1	Grade C20; 20mm aggregate	m ³	£##
F253.1	Grade C25; 20mm aggregate	m ³	£##
F263.1	Grade C30; 20mm aggregate	m ³	£##
F273.1	Grade C35; 20mm aggregate	m ³	£##
F283.1	Grade C40; 20mm aggregate	m ³	£##
<u>Provision of concrete; designed mix : sulphate resisting</u>			
F213.2	Grade C7.5; 20mm aggregate	m ³	£##
F223.2	Grade C10; 20mm aggregate	m ³	£##
F233.2	Grade C15; 20mm aggregate	m ³	£##
F243.2	Grade C20; 20mm aggregate	m ³	£##
F253.2	Grade C25; 20mm aggregate	m ³	£##
F263.2	Grade C30; 20mm aggregate	m ³	£##
F273.2	Grade C35; 20mm aggregate	m ³	£##
F283.2	Grade C40; 20mm aggregate	m ³	£##
<u>Placing of concrete</u>			
F511	Mass; blinding; thickness: not exceeding 150mm	m ³	£##
F522.1	Mass; bases, footings, pile caps and ground beams; thickness: 150 to 300mm	m ³	£##
F523.1	Mass; bases, footings, pile caps and ground beams; thickness: 300 to 500mm	m ³	£##
F524.1	Mass; bases, footings, pile caps and ground beams; thickness: exceeding 500mm	m ³	£##
F532	Mass; walls; thickness: 150 to 300mm	m ³	£##
F533	Mass; walls; thickness: 300 to 500mm	m ³	£##
F534	Mass; walls; thickness: exceeding 500mm	m ³	£##
F580.1	Mass; other concrete forms: infill	m ³	£##
F580.2	Mass; other concrete forms: channels	m ³	£##
F580.3	Mass; other concrete forms: upstands	m ³	£##
F580.4	Mass; other concrete forms: surrounds	m ³	£##
F621	Reinforced; bases, footings, pile caps and ground beams; thickness: not exceeding 150mm	m ³	£##
F622	Reinforced; bases, footings, pile caps and ground beams; thickness: 150 to 300mm	m ³	£##
F623	Reinforced; bases, footings, pile caps and ground beams; thickness: 300 to 500mm	m ³	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
F624	Reinforced; bases, footings, pile caps and ground beams; thickness: exceeding 500mm	m ³	£##
F641	Reinforced; walls; thickness: not exceeding 150mm	m ³	£##
F642	Reinforced; walls; thickness: 150 to 300mm	m ³	£##
F643	Reinforced; walls; thickness: 300 to 500mm	m ³	£##
F644	Reinforced; walls; thickness: exceeding 500mm	m ³	£##
F663	Reinforced; beams; sheet pile capping beam; cross sectional area: 0.1 – 0.25m ²	m ³	£##
F664	Reinforced; beams; sheet pile capping beam; cross sectional area: 0.25 – 1m ²	m ³	£##
F680.1	Reinforced; other concrete forms: infill	m ³	£##
F680.2	Reinforced; other concrete forms: channels	m ³	£##
F680.3	Reinforced; other concrete forms: upstands	m ³	£##
	<u>Filling and placing of concrete filled hessian bags (size 500 x 250mm) as drawing 03 - 01:</u> Excludes all landscaping works to top surface.		
F999.1	To form mass wall transition to end of piling.	m ³	£##
F999.2	To form single row canal wall below water level including reinforcing bars: 500mm thick	m ²	£##
F999.3	To form single row canal wall above water level including reinforcing bars: 500mm thick	m ²	£##
F999.4	To form double row canal wall below water level including reinforcing bars: 1000mm thick	m ²	£##
F999.5	To form double row canal wall above water level including reinforcing bars: 1000mm thick	m ²	£##
	<u>Supply and placing of no-fines concrete</u>		
F263,3	Supply No-fines concrete, 30 N/mm ² 28 day strength, 20mm aggregate	m ³	£##
F522.2	Place No-fines concrete, 30 N/mm ² 28 day strength, 20mm aggregate; thickness: 150 – 300mm	m ³	£##
F523.2	Place No-fines concrete, 30 N/mm ² 28 day strength, 20mm aggregate; thickness: 300 – 500mm	m ³	£##
F524.2	Place No-fines concrete, 30 N/mm ² 28 day strength, 20mm aggregate; thickness: exceeding 500mm	m ³	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Concrete Ancillaries</u>		
	Formwork - <i>Supplier</i> to note that formwork rarely gets more than one use on BW projects		
	<u>Formwork: rough finish</u>		
G111	Plane horizontal; width: not exceeding 0.1m	m	£##
G112	Plane horizontal; width: 0.1 – 0.2m	m	£##
G113	Plane horizontal; width: 0.2 – 0.4m	m ²	£##
G114	Plane horizontal; width: 0.4 – 1.22m	m ²	£##
G115	Plane horizontal; width: exceeding 1.22m	m ²	£##
G131	Plane battered; width: not exceeding 0.1m	m	£##
G132	Plane battered; width: 0.1 – 0.2m	m	£##
G133	Plane battered; width: 0.2 – 0.4m	m ²	£##
G134	Plane battered; width: 0.4 – 1.22m	m ²	£##
G135	Plane battered; width: exceeding 1.22m	m ²	£##
G141	Plane vertical; width: not exceeding 0.1m	m	£##
G142	Plane vertical; width: 0.1 – 0.2m	m	£##
G143	Plane vertical; width: 0.2 – 0.4m	m ²	£##
G144	Plane vertical; width: 0.4 – 1.22m	m ²	£##
G145	Plane vertical; width: exceeding 1.22m	m ²	£##
	<u>Formwork: fair finish</u>		
G211	Plane horizontal; width: not exceeding 0.1m	m	£##
G212	Plane horizontal; width: 0.1 – 0.2m	m	£##
G213	Plane horizontal; width: 0.2 – 0.4m	m ²	£##
G214	Plane horizontal; width: 0.4 – 1.22m	m ²	£##
G215	Plane horizontal; width: exceeding 1.22m	m ²	£##
G231	Plane battered; width: not exceeding 0.1m	m	£##
G232	Plane battered; width: 0.1 – 0.2m	m	£##
G233	Plane battered; width: 0.2 – 0.4m	m ²	£##
G234	Plane battered; width: 0.4 – 1.22m	m ²	£##
G235	Plane battered; width: exceeding 1.22m	m ²	£##
G241	Plane vertical; width: not exceeding 0.1m	m	£##
G242	Plane vertical; width: 0.1 – 0.2m	m	£##
G243	Plane vertical; width: 0.2 – 0.4m	m ²	£##
G244	Plane vertical; width: 0.4 – 1.22m	m ²	£##
G245	Plane vertical; width: exceeding 1.22m	m ²	£##
G271	For voids; small void depth: not exceeding 0.5m	nr	£##
G272	For voids; small void depth: 0.5 - 1m	nr	£##
G273	For voids; small void depth: 1 - 2m	nr	£##
G274	For voids; large void depth: not exceeding 0.5m	nr	£##
G275	For voids; large void depth: 0.5 - 1m	nr	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
G276	For voids; large void depth: 1 - 2m	nr	£##
G286	Intrusions; 25 x 25mm chamfers	m	£##
	<u>Reinforcement</u>		
	Bar reinforcement:		
G511	Plain round bars to BS 4449; nominal size: 6mm	t	£##
G512	Plain round bars to BS 4449; nominal size: 8mm	t	£##
G513	Plain round bars to BS 4449; nominal size: 10mm	t	£##
G514	Plain round bars to BS 4449; nominal size: 12mm	t	£##
G515	Plain round bars to BS 4449; nominal size: 16mm	t	£##
G516	Plain round bars to BS 4449; nominal size: 20mm	t	£##
G517	Plain round bars to BS 4449; nominal size: 25mm	t	£##
G521	Deformed high yield steel bars to BS 4449; nominal size: 6mm	t	£##
G522	Deformed high yield steel bars to BS 4449; nominal size: 8mm	t	£##
G523	Deformed high yield steel bars to BS 4449; nominal size: 10mm	t	£##
G524	Deformed high yield steel bars to BS 4449; nominal size: 12mm	t	£##
G525	Deformed high yield steel bars to BS 4449; nominal size: 16mm	t	£##
G526	Deformed high yield steel bars to BS 4449; nominal size: 20mm	t	£##
G527	Deformed high yield steel bars to BS 4449; nominal size: 25mm	t	£##
G528	Deformed high yield steel bars to BS 4449; nominal size: 32mm or greater	t	£##
	Mesh reinforcement:		
G563	Steel fabric to BS 4483; nominal mass: 3 – 4kg/m ²	m ²	£##
G564	Steel fabric to BS 4483; nominal mass: 4 – 5kg/m ²	m ²	£##
G565	Steel fabric to BS 4483; nominal mass: 5 – 6kg/m ²	m ²	£##
G566	Steel fabric to BS 4483; nominal mass: 6 – 7kg/m ² (A393)	m ²	£##
G567	Steel fabric to BS 4483; nominal mass: 7 – 8kg/m ²	m ²	£##
	<u>Joints</u>		
G611	Open surface plain; average width: not exceeding 0.5m	m ²	£##
G612	Open surface plain; average width: 0.5 - 1m	m ²	£##
G613	Open surface plain; average width: exceeding 1m	m ²	£##
G631	Formed surface with filler, 19mm thick; average width: not exceeding 0.5m	m ²	£##
G632	Formed surface with filler, 19mm thick; average width: 0.5 - 1m	m ²	£##
G633	Formed surface with filler, 19mm thick; average width: exceeding 1m	m ²	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
G661.1	Waterstops : backstop, pvc; width 200 – 300mm	m	£##
G661.2	Waterstops : centrally placed in concrete section, pvc, centre bulb; width 200 – 300mm	m	£##
G670	Sealed rebates or grooves; polyurethane sealing compound 15mm wide x 20mm deep; bottom de-bonded with tape	m	£##
G682	Dowels; sleeved or capped; 25mm diameter, 600mm long; debonded for half length on cap side	nr	£##
<u>Concrete accessories</u>			
G811	Finishing of top open surfaces; wood float	m ²	£##
G812	Finishing of top open surfaces; steel float	m ²	£##
G813.1	Finishing of top open surfaces; U1 finish to SHW	m ²	£##
G813.2	Finishing of top open surfaces; U2 finish to SHW	m ²	£##
G813.3	Finishing of top open surfaces; U3 finish to SHW	m ²	£##
G813.4	Finishing of top open surfaces; U4 finish to SHW	m ²	£##
G813.5	Finishing of top surfaces; aggregate exposure using pressure water jet on fresh green concrete	m ²	£##
G821	Finishing of formed surfaces; exposed aggregate using retarder	m ²	£##
G822	Finishing of formed surfaces; exposed aggregate bush hammering	m ²	£##
G823	Finishing of formed surfaces; exposed aggregate using pressure water jet on fresh green concrete	m ²	£##
G832.1	Inserts; 100mm nominal bore pipe through wall 150 – 300mm thick	nr	£##
G832.2	Inserts; 150mm nominal bore pipe through wall 150 – 300mm thick	nr	£##
G832.3	Inserts; 200mm nominal bore pipe through wall 150 – 300mm thick	nr	£##
G832.4	Inserts; 250mm nominal bore pipe through wall 150 – 300mm thick	nr	£##
G832.5	Inserts; 300mm nominal bore pipe through wall 150 – 300mm thick	nr	£##
G841	Grouting under plates; in cement mortar; area: not exceeding 0.1m ²	nr	£##
G842	Grouting under plates; in cement mortar; area: 0.1 – 0.5m ²	nr	£##
G843	Grouting under plates; in cement mortar; area: 0.5 - 1m ²	nr	£##
G844	Grouting under plates; in cement mortar; area: exceeding 1m ²	nr	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Pipework - Pipes</u>		
	<u>Clay pipes</u>		
I112.1	Nominal bore: 100mm; in trenches depth: not exceeding 1.5m	m	£##
I112.2	Nominal bore: 150mm; in trenches depth: not exceeding 1.5m	m	£##
I122	Nominal bore: 225mm; in trenches depth: not exceeding 1.5m	m	£##
	<u>Concrete pipes, Class H; rebated flexible joint with mastic sealant to internal faces</u>		
I232.1	Nominal bore: 300mm; in trenches depth: not exceeding 1.5m	m	£##
I232.2	Nominal bore: 450mm; in trenches depth: not exceeding 1.5m	m	£##
I232.3	Nominal bore: 600mm; in trenches depth: not exceeding 1.5m	m	£##
I242	Nominal bore: 750mm; in trenches depth: not exceeding 1.5m	m	£##
I252	Nominal bore: 900mm; in trenches depth: not exceeding 1.5m	m	£##
I262	Nominal bore: 1200mm; in trenches depth: not exceeding 1.5m	m	£##
I233.1	Nominal bore: 300mm; in trenches depth: 1.5 - 2m	m	£##
I233.2	Nominal bore: 450mm; in trenches depth: 1.5 - 2m	m	£##
I233.3	Nominal bore: 600mm; in trenches depth: 1.5 - 2m	m	£##
I243	Nominal bore: 750mm; in trenches depth: 1.5 - 2m	m	£##
I253	Nominal bore: 900mm; in trenches depth: 1.5 – 2m	m	£##
I263	Nominal bore: 1200mm; in trenches depth: 1.5 - 2m	m	£##
I244	Nominal bore: 750mm; in trenches depth: 2 – 2.5m	m	£##
I254	Nominal bore: 900mm; in trenches depth: 2 – 2.5m	m	£##
I264	Nominal bore: 1200mm; in trenches depth: 2 – 2.5m	m	£##
	<u>Ductile iron flanged pipes, BS EN 877</u>		
I311.1	Nominal bore: 100mm; not in trenches	m	£##
I311.2	Nominal bore: 150mm; not in trenches	m	£##
I312.1	Nominal bore: 100mm; in trenches depth: not exceeding 1.5m	m	£##
I312.2	Nominal bore: 150mm; in trenches depth: not exceeding 1.5m	m	£##
I321.1	Nominal bore: 200mm; not in trenches	m	£##
I321.2	Nominal bore: 250mm; not in trenches	m	£##
I321.3	Nominal bore: 300mm; not in trenches	m	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
I322.1	Nominal bore: 200mm; in trenches depth: not exceeding 1.5m	m	£##
I322.2	Nominal bore: 250mm; in trenches depth: not exceeding 1.5m	m	£##
I322.3	Nominal bore: 300mm; in trenches depth: not exceeding 1.5m	m	£##
	<u>Polyvinyl chloride pipes</u>		
I512.1	Nominal bore: 100mm; in trenches depth: not exceeding 1.5m	m	£##
I512.2	Nominal bore: 150mm; in trenches depth: not exceeding 1.5m	m	£##
I522	Nominal bore: 225mm; in trenches depth: not exceeding 1.5m	m	£##
I532	Nominal bore: 300mm; in trenches depth: not exceeding 1.5m	m	£##
	<u>High density polyethylene pipes</u>		
I712.1	Nominal bore: 100mm; in trenches depth: not exceeding 1.5m	m	£##
I712.2	Nominal bore: 150mm; in trenches depth: not exceeding 1.5m	m	£##
I722	Nominal bore: 225mm; in trenches depth: not exceeding 1.5m	m	£##
	<u>Medium density polyethylene pipes</u>		
I812.1	Nominal bore: 100mm; in trenches depth: not exceeding 1.5m	m	£##
I812.2	Nominal bore: 150mm; in trenches depth: not exceeding 1.5m	m	£##
I822.1	Nominal bore: 225mm; in trenches depth: not exceeding 1.5m	m	£##
	<u>MDPE Pipes</u>		
I812.3	Nominal bore: 100mm, perforated; in trenches depth: not exceeding 1.5m	m	£##
I812.4	Nominal bore: 150mm, perforated; in trenches depth: not exceeding 1.5m	m	£##
I822.2	Nominal bore: 225mm, perforated; in trenches depth: not exceeding 1.5m	m	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Pipework – Fittings and valves</u>		
	<u>Clay pipe fittings</u>		
J111.1	Bends; Nominal bore: 100mm	nr	£##
J111.2	Bends; Nominal bore: 150mm	nr	£##
J112	Bends; Nominal bore: 225mm	nr	£##
	<u>Concrete pipe fittings, Class H</u>		
J212	Bends; Nominal bore: 300mm	nr	£##
J213.1	Bends; Nominal bore: 450mm	nr	£##
J213.2	Bends; Nominal bore: 600mm	nr	£##
J214	Bends; Nominal bore: 750mm	nr	£##
J215	Bends; Nominal bore: 900mm	nr	£##
	<u>Ductile iron flanged pipe fittings, BS EN 877</u>		
J311.1	Bends; Nominal bore: 100mm	nr	£##
J311.2	Bends; Nominal bore: 150mm	nr	£##
J312.1	Bends; Nominal bore: 200mm	nr	£##
J312.2	Bends; Nominal bore: 250mm	nr	£##
J312.3	Bends; Nominal bore: 300mm	nr	£##
J322	Tee; Nominal bore: 300mm	nr	£##
J332	Taper; Nominal bore: 300 – 250mm		
J382	Straight specials; 1000mm long; Nominal bore: 300mm	nr	£##
	<u>Polyvinyl chloride pipe fittings</u>		
J411.1	Long radius bends; Nominal bore: 100mm	nr	£##
J411.2	Long radius bends; Nominal bore: 150mm	nr	£##
J412	Long radius bends; Nominal bore: 225mm	nr	£##
	<u>High density polyethylene pipe fittings</u>		
J611.1	Bends; Nominal bore: 100mm	nr	£##
J611.2	Bends; Nominal bore: 150mm	nr	£##
J612	Bends; Nominal bore: 225mm	nr	£##
	<u>Medium density polyethylene pipe fittings</u>		
J711.1	Bends; Nominal bore: 100mm	nr	£##
J711.2	Bends; Nominal bore: 150mm	nr	£##
J712	Bends; Nominal bore: 225mm	nr	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
<u>Pipework – Manholes and Pipework Ancillaries</u>			
<u>Manholes; precast concrete, all inclusive</u> Medium duty lockable covers			
K151.1	Depth: not exceeding 1.5m; diameter 900mm	nr	£##
K151.2	Depth: not exceeding 1.5m; diameter 1200mm	nr	£##
K151.3	Depth: not exceeding 1.5m; diameter 1500mm	nr	£##
K152.1	Depth: 1.5 - 2m; diameter 900mm	nr	£##
K152.2	Depth: 1.5 – 2m; diameter 1200mm	nr	£##
K152.3	Depth: 1.5 – 2m; diameter 1500mm	nr	£##
K153.1	Depth: 2 – 2.5 m; diameter 900mm	nr	£##
K153.2	Depth: 2 – 2.5 m; diameter 1200mm	nr	£##
K153.3	Depth: 2 – 2.5 m; diameter 1500mm	nr	£##
K154.1	Depth: 2.5 – 3 m; diameter 900mm	nr	£##
K154.2	Depth: 2.5 – 3 m; diameter 1200mm	nr	£##
K154.3	Depth: 2.5 – 3 m; diameter 1500mm	nr	£##
K155.1	Depth: 3 – 3.5 m; diameter 900mm	nr	£##
K155.2	Depth: 3 – 3.5 m; diameter 1200mm	nr	£##
K155.3	Depth: 3 – 3.5 m; diameter 1500mm	nr	£##
K156.1	Depth: 3.5 – 4 m; diameter 900mm	nr	£##
K156.2	Depth: 3.5 – 4 m; diameter 1200mm	nr	£##
K156.3	Depth: 3.5 – 4 m; diameter 1500mm	nr	£##
K157.1	Depth: 4 – 6 m; diameter 900mm	nr	£##
K157.2	Depth: 4 – 6 m; diameter 1200mm	nr	£##
K157.3	Depth: 4 – 6 m; diameter 1500mm	nr	£##
<u>French drains, rubble drains, ditches and trenches</u>			
K432	Filling French drains with graded material, 20 – 50mm graded stone; geotextile filter fabric to bed and sides, Terram 1000 gauge or similar; sectional area: 0.25 – 0.5m ²	m	£##
K433	Filling French drains with graded material, 20 – 50mm graded stone; geotextile filter fabric to bed and sides, Terram 1000 gauge or similar; sectional area: 0.5 – 0.75m ²	m	£##
K434	Filling French drains with graded material, 20 – 50mm graded stone; geotextile filter fabric to bed and sides, Terram 1000 gauge or similar; sectional area: 0.75 – 1.0m ²	m	£##
K435	Filling French drains with graded material, 20 – 50mm graded stone; geotextile filter fabric to bed and sides, Terram 1000 gauge or similar; sectional area: 1.0 – 1.5m ²	m	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Reinstatement</u>		
K731	Breaking up, temporary and permanent reinstatement of roads; pipe bore: not exceeding 300mm	m	£##
K732	Breaking up, temporary and permanent reinstatement of roads; pipe bore: 300 - 900mm	m	£##
K741	Breaking up, temporary and permanent reinstatement of footpaths; pipe bore: not exceeding 300mm	m	£##
K742	Breaking up, temporary and permanent reinstatement of footpaths; pipe bore: 300 - 900mm	m	£##
K751	Breaking up, temporary and permanent reinstatement of land; pipe bore: not exceeding 300mm	m	£##
K752	Breaking up, temporary and permanent reinstatement of land; pipe bore: 300 - 900mm	m	£##
K791	Breaking up, temporary and permanent reinstatement of stone towpath; pipe bore: not exceeding 300mm	m	£##
K792	Breaking up, temporary and permanent reinstatement of stone towpath; pipe bore: 300 - 900mm	m	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Pipework – Supports and Protection, Ancillaries to Laying and Excavation</u>		
	<u>Extras to excavation and backfilling</u>		
L116	Backfilling above the final surface with DoT type 1	m ³	£##
	<u>Beds</u>		
L321	Imported granular material; nominal bore: not exceeding 200mm	m	£##
L322	Imported granular material; nominal bore: 200 - 300mm	m	£##
L323	Imported granular material; nominal bore: 300 - 600mm	m	£##
L341	Concrete grade 15, 40mm aggregate; nominal bore: not exceeding 200mm	m	£##
L342	Concrete grade 15, 40mm aggregate; nominal bore: 200 - 300mm	m	£##
L343	Concrete grade 15, 40mm aggregate; nominal bore: 300 - 600mm	m	£##
	<u>Surrounds</u>		
L521	Imported granular material; nominal bore: not exceeding 200mm	m	£##
L522	Imported granular material; nominal bore: 200 - 300mm	m	£##
L523	Imported granular material; nominal bore: 300 - 600mm	m	£##
L541	Concrete grade 15, 40mm aggregate; nominal bore: not exceeding 200mm	m	£##
L542	Concrete grade 15, 40mm aggregate; nominal bore: 200 - 300mm	m	£##
L543	Concrete grade 15, 40mm aggregate; nominal bore: 300 - 600mm	m	£##
	<u>Concrete stools and thrust blocks; mass concrete grade C35</u>		
L710	Volume; not exceeding 0.1m ³	nr	£##
L720	Volume: 0.1 – 0.2m ³	nr	£##
L730	Volume: 0.2 – 0.5m ³	nr	£##
L740	Volume: 0.5 – 1m ³	nr	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<p><u>Timber</u></p> <p><u>Timber Fenders to solid walls; concrete, masonry, brickwork; along canal infrastructure edges:</u></p> <p>Rate: £ per metre. To include for all fittings and fixings. Timber to be FSC certified, from a managed sustainable source with chain of custody.</p>		
O229	Softwood Douglas Fir 150 x 75 mm thick	m	£##
O239	Softwood Douglas Fir 250 x 100mm thick	m	£##
O129.1	European hardwood (Oak) 150 x 75 mm thick	m	£##
O139.1	European hardwood (Oak) 250 x 100mm thick		£##
O129.2	Tropical hardwood 150 x 75 mm thick	m	£##
O139.2	Tropical hardwood 250 x 100mm thick	m	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Piles</u>		
	<u>Timber piles, supplied by the Employer:</u>		
P611	Timber stakes of diameter of 100mm. Driven posts of length 3.0m	Nr	£##
	<u>Isolated steel piles, supplied by the Employer:</u>		
P712.1	Anchor piles. Mass: not exceeding 15 kg/m. Driven depth.	m	£##
	<u>Where Trench Sheet piling is supplied by the Employer</u> Driven Area		
P812.1	Not exceeding 1.8m long piles. Section modulus: not exceeding 100 cm ³ /m. Driven area	m ²	£##
P812.2	Over 1.8m not exceeding 2.4m long piles. Section modulus: not exceeding 100 cm ³ /m. Driven area	m ²	£##
P812.3	Over 2.4m not exceeding 3.0m long piles. Section modulus: not exceeding 200 cm ³ /m. Driven area	m ²	£##
P812.4	Over 3.0m not exceeding 3.6m long piles. Section modulus: not exceeding 200 cm ³ /m. Driven area	m ²	£##
	<u>Where Trench Sheet piling is supplied by the Employer</u> Area of piles (if applicable)		
P813.1	Not exceeding 1.8m long piles. Section modulus: not exceeding 100 cm ³ /m. Driven area	m ²	£##
P813.2	Over 1.8m not exceeding 2.4m long piles. Section modulus: not exceeding 100 cm ³ /m. Driven area	m ²	£##
P813.3	Over 2.4m not exceeding 3.0m long piles. Section modulus: not exceeding 200 cm ³ /m. Driven area	m ²	£##
P813.4	Over 3.0m not exceeding 3.6m long piles. Section modulus: not exceeding 200 cm ³ /m. Driven area	m ²	£##
	<u>Where interlocking steel piles are supplied by the Employer:</u> Driven Area		
P822.1	Piles not exceeding 14m long . Section modulus: 500 to 800 cm ³ /m. Driven area	m ²	£##
P832.1	Piles not exceeding 14m long. Section modulus: 800 to 1200 cm ³ /m. Driven area	m ²	£##
P842.1	Piles not exceeding 14m long. Section modulus: 1200 to 2000 cm ³ /m. Driven area	m ²	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
P852.1	Piles 14 to 24m long. Section modulus: 2000 to 3000 cm ³ /m. Driven area	m ²	£##
P862.1	Piles 14 to 24.0m long. Section modulus: average 3000 to 4000 cm ³ /m. Driven area.	m ²	£##
	<u>Where interlocking steel piles are supplied by the Employer:</u> Area of Piles (if applicable)		
P823.1	Section modulus: 500 to 800cm ³ /m. Area of piles, length: n.e. 14m.	m ²	£##
P833.1	Section modulus: 800 to 1200 cm ³ /m. Area of piles, length: n.e. 14m	m ²	£##
P843.1	Section modulus: 1200 to 2000cm ³ /m. Area of piles, length: n.e. 14m	m ²	£##
P853.1	Section modulus: 2000 to 3000cm ³ /m. Area of piles, length: n.e. 14m	m ²	£##
P864.1	Section modulus: 3000 to 4000cm ³ /m. Area of piles, length: 14 to 24m	m ²	£##
	<u>Isolated steel piles, Contractor supply</u>		
P712.2	Anchor piles. Mass: not exceeding 15 kg/m. Driven depth.	m	£##
	<u>Trench sheeting Contractor supply</u> Driven Area		
P812.5	Not exceeding 1.8m long piles. Section modulus: not exceeding 100 cm ³ /m. Driven area	m ²	£##
P812.6	Over 1.8m not exceeding 2.4m long piles. Section modulus: not exceeding 100 cm ³ /m. Driven area	m ²	£##
P812.7	Over 2.4m not exceeding 3.0m long piles. Section modulus: not exceeding 200 cm ³ /m. Driven area	m ²	£##
P812.8	Over 3.0m not exceeding 3.6m long piles. Section modulus: not exceeding 200 cm ³ /m. Driven area	m ²	£##
	<u>Trench sheeting Contractor supply</u> Area of piles		
P813.5	Not exceeding 1.8m long piles. Section modulus: not exceeding 100 cm ³ /m. Driven area	m ²	£##
P813.6	Over 1.8m not exceeding 2.4m long piles. Section modulus: not exceeding 100 cm ³ /m. Driven area	m ²	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
P813.7	Over 2.4m not exceeding 3.0m long piles. Section modulus: not exceeding 200 cm ³ /m. Driven area	m ²	£##
P813.8	Over 3.0m not exceeding 3.6m long piles. Section modulus: not exceeding 200 cm ³ /m. Driven area	m ²	£##
	<u>Interlocking steel piles Contractor supply</u> Driven Area		
P822.2	Piles not exceeding 14m long . Section modulus: 500 to 800 cm ³ /m. Driven area	m ²	£##
P832.2	Piles not exceeding 14m long. Section modulus: 800 to 1200 cm ³ /m. Driven area	m ²	£##
P842.2	Piles not exceeding 14m long. Section modulus: 1200 to 2000 cm ³ /m. Driven area	m ²	£##
P852.2	Piles 14 to 24m long. Section modulus: 2000 to 3000 cm ³ /m. Driven area	m ²	£##
P862.2	Piles 14 to 24.0m long. Section modulus: average 3000 to 4000 cm ³ /m. Driven area.	m ²	£##
	<u>Interlocking steel piles Contractor supply</u> Area of Piles		
P823.2	Section modulus: 500 to 800cm ³ /m. Area of piles, length: n.e. 14m.	m ²	£##
P833.2	Section modulus: 800 to 1200 cm ³ /m. Area of piles, length: n.e. 14m	m ²	£##
P843.2	Section modulus: 1200 to 2000cm ³ /m. Area of piles, length: n.e. 14m	m ²	£##
P853.2	Section modulus: 2000 to 3000cm ³ /m. Area of piles, length: n.e. 14m	m ²	£##
P864.2	Section modulus: 3000 to 4000cm ³ /m. Area of piles, length: 14 to 24m	m ²	£##
	<u>Miscellaneous</u>		
P816.1	Removal of existing steel trench sheets, up to 2.4m in length	m ²	£##
P816.2	Removal of existing steel trench sheets, up to 3.6m in length	m ²	£##
P816.3	Disposal of old trench sheets up to 2.4m in length (for recycling)	m ²	£##
P816.4	Disposal of old trench sheets up to 3.6m in length (for recycling)	m ²	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Piling Ancillaries</u>		
	<u>Trench Sheeting</u>		
Q691.1	Drilling of 25mm diameter anchorage hole and coating with galvanised paint. Section modulus: not exceeding 500 cm ³ /m	nr	£##
Q671	Cutting off surplus lengths (plan length). Section modulus: not exceeding 500 cm ³ /m	m	£##
	<u>Interlocking steel piles</u>		
Q692.1	Drilling of 38mm diameter anchorage hole. Section modulus: not exceeding 500 to 800 cm ³ /m	nr	£##
Q693.1	Drilling of 38mm diameter anchorage hole. Section modulus: not exceeding 800 to 1200 cm ³ /m	nr	£##
Q694.1	Drilling of 75mm diameter anchorage hole. Section modulus: not exceeding 1200 to 2000 cm ³ /m	nr	£##
Q695.1	Drilling of 75mm diameter anchorage hole. Section modulus: not exceeding 2000 to 3000 cm ³ /m	nr	£##
Q672	Cutting off surplus lengths (plan length). Section modulus: 500 to 800 cm ³ /m	m	£##
Q673	Cutting off surplus lengths (plan length). Section modulus: 800 to 1200 cm ³ /m	m	£##
Q674	Cutting off surplus lengths (plan length). Section modulus: 1200 to 2000 cm ³ /m	m	£##
Q675	Cutting off surplus lengths (plan length). Section modulus: 2000 to 3000 cm ³ /m	m	£##
Q676	Cutting off surplus lengths (plan length). Section modulus: 3000 to 4000 cm ³ /m	m	£##
Q691.2	Making good lifting holes, Z n.e. 500 cm ³ /m	nr	£##
Q692.2	Making good lifting holes, Z 500 to 800 cm ³ /m	nr	£##
Q693.2	Making good lifting holes, Z 800 to 1200 cm ³ /m	nr	£##
Q694.2	Making good lifting holes, Z 1200 to 2000 cm ³ /m	nr	£##
Q695.2	Making good lifting holes, Z 2000 to 3000 cm ³ /m	nr	£##
Q696	Making good lifting holes, Z 3000 to 4000 cm ³ /m	nr	£##
	<u>Tie rods for trench sheeting; supplied by the Employer</u>		
Q911.1	1.8m long, 20mm nominal diameter	nr	£##
Q912.1	2.4m long, 20mm nominal diameter	nr	£##
Q913.1	3.0m long, 20mm nominal diameter	nr	£##
Q914.1	3.6m long, 20mm nominal diameter	nr	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Tie rods for trench sheeting, Contractor supply</u>		
Q911.2	1.8m long, 20mm nominal diameter	Nr	£##
Q912.2	2.4m long, 20mm nominal diameter	Nr	£##
Q913.2	3.0m long, 20mm nominal diameter	Nr	£##
Q914.2	3.6m long, 20mm nominal diameter	Nr	£##
	<u>Walings & Fenders; supplied by the Employer</u>		
	To trench sheets & sheet piles, including all fittings & fixings		
Q921.1	Standard trench sheet metal waling, galvanised, profiled in section	m	£##
	<u>Walings & Fenders; Contractor supply</u>		
	To trench sheets & sheet piles, including all fittings & fixings		
Q921.2	Standard trench sheet metal waling, galvanised, profiled in section	m	£##
	<u>Timber fenders, to include all fittings & fixings</u>		
Q931	Douglas Fir, 150mm x 75mm wide	m	£##
Q932	Douglas Fir, 250mm x 100mm wide	m	£##
Q933	European hardwood timber (Oak), 150 x 75mm wide.	m	£##
Q934	European hardwood timber (Oak), 250 x 100mm wide.	m	£##
Q935	Tropical hardwood timber, 150 x 75mm wide.	m	£##
Q936	Tropical hardwood timber, 250 x 100mm wide.	m	£##
	<u>Clearance along pile line prior to piling</u>		
Q941	Pre-excavation from ground level along piling line to form a trench 600 x 500mm, including adjacent stockpiling of material to back of towpath for later re-use	m	£##
Q942	Clearance of canal bed below water along the line of piles; including disposal in the canal adjacent	m ²	£##
	<u>Applied systems to steel sheet piles</u>		
Q951	Pre-applied clutch sealant	m	£##
Q952	Protective coating factory applied PC1 system or equivalent	m ²	£##
Q953	Protective coating factory applied PC2 system or equivalent	m ²	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Walings – In accordance with sheet piling handbook</u> <u>Double channel; back-to-back, to include all fixings, fittings,</u> <u>separators, etc</u>		
Q961.1	Grade S275 : 2x 305x102x46	m	£##
Q961.2	Grade S275 : 2x 254x 89x36	m	£##
Q961.3	Grade S275 : 2x 203x 89x30	m	£##
Q961.4	Grade S275 : 2x 152x89x24	m	£##
Q961.5	Grade S355 : 2x 305x102x46	m	£##
Q961.6	Grade S355 : 2x 254x 89x36	m	£##
Q961.7	Grade S355 : 2x 203x 89x30	m	£##
Q961.8	Grade S355 : 2x 152x89x24	m	£##
	<u>Tie bars. Threaded at each end for fixings and fittings</u>		
Q971.1	Grade S275 : diameter 32mm	m	£##
Q971.2	Grade S275 : diameter 40mm	m	£##
Q971.3	Grade S275 : diameter 50mm	m	£##
Q971.4	Grade S275 : diameter 70mm	m	£##
Q971.5	Grade S355 : diameter 32mm	m	£##
Q971.6	Grade S355 : diameter 40mm	m	£##
Q971.7	Grade S355 : diameter 50mm	m	£##
Q971.8	Grade S355 : diameter 70mm	m	£##
	<u>Bearing plates</u>		
Q981.1	Grade S275 : 180 x 180 x 25mm	nr	£##
Q981.2	Grade S275 : 200 x 200 x 35mm	nr	£##
Q981.3	Grade S355 : 180 x 180 x 30mm	nr	£##
Q981.4	Grade S355 : 200 x 200 x 40mm	nr	£##
	<u>Anchor plates</u>		
Q991.1	Grade S275 : 225 x 225 x 20mm	nr	£##
Q991.2	Grade S275 : 250 x 250 x 20mm	nr	£##
Q991.3	Grade S275 : 325 x 325 x30mm	nr	£##
Q991.4	Grade S355 : 225 x 225 x 25mm	nr	£##
Q991.5	Grade S355 : 225 x 225 x 25mm	nr	£##
Q991.6	Grade S355 : 425 x 425 x 40mm	nr	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Roads and Pavings</u>		
	<u>Sub-bases, flexible road bases and surfacing</u>		
R113	Granular material DTp Specified type 1; depth: 75mm	m ²	£##
R114	Granular material DTp Specified type 1; depth: 150mm	m ²	£##
R116	Granular material DTp Specified type 1; depth: 225mm	m ²	£##
R117	Granular material DTp Specified type 1; depth: 300mm	m ²	£##
R232.1	DBM road base/base course depth 30 – 60 mm	m ²	£##
R233.1	DBM road base/base course depth 60 – 100 mm	m ²	£##
R252.1	Dense tarmacadam road base/base course depth 30 – 60 mm	m ²	£##
R253.1	Dense tarmacadam road base/base course depth 60 – 100 mm	m ²	£##
R231.1	DBM surfacing/wearing course depth not exceeding 30mm	m ²	£##
R222.1	DBM surfacing/wearing course depth 30 – 60 mm	m ²	£##
R251.1	Dense tarmacadam surfacing/wearing course not exceeding 30mm	m ²	£##
R252.2	Dense tarmacadam surfacing/wearing course depth 30 – 60 mm	m ²	£##
R170	Geotextiles; Terram 1000 gauge or similar	m ²	£##
	<u>Kerbs</u>		
R611.1	Precast concrete kerbs, laid on concrete foundation; straight or curved to radius exceeding 12m : 125 x 150mm	m	£##
R611.2	Precast concrete kerbs, laid on concrete foundation; straight or curved to radius exceeding 12m : 125 x 255mm	m	£##
R611.3	Precast concrete kerbs, laid on concrete foundation; straight or curved to radius exceeding 12m : 150 x 305mm	m	£##
R612.1	Precast concrete kerbs, laid on concrete foundation; straight or curved to radius not exceeding 12m : 125 x 150mm	m	£##
R612.2	Precast concrete kerbs, laid on concrete foundation; straight or curved to radius not exceeding 12m : 125 x 255mm	m	£##
R612.3	Precast concrete kerbs, laid on concrete foundation; straight or curved to radius not exceeding 12m : 150 x 305mm	m	£##
R641	Precast concrete edgings, laid on concrete foundation; straight or curved to radius exceeding 12m : 50 x 150mm	m	£##
R642	Precast concrete edgings, laid on concrete foundation; straight or curved to radius not exceeding 12m : 50 x 150mm	m	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Sub-bases, Flexible Road Bases and Surfacing</u>		
	<u>Towpath Works (specifically and solely)</u>		
R799.1	Supply and lay non-woven filter fabric geotextile (Terram 1000, or equivalent) to towpath not exceeding 4.0m wide.	m ²	£##
R793.1	Supply and lay new granular material DTp specification type 1 to towpath not exceeding 4.0m wide; Depth 75mm.	m ²	£##
R793.2	Supply and lay reclaimed granular material DTp specification type 1 to towpath not exceeding 4.0m wide; Depth 75mm.	m ²	£##
R792.1	Supply and lay crushed brick surfacing to towpath; Depth 50mm.	m ²	£##
R792.2	Supply and lay crushed limestone surfacing to towpath; Depth 50mm.	m ²	£##
R792.3	Supply and lay granite aggregate surfacing to towpath; Depth 50mm.	m ²	£##
R792.4	Supply and lay Breedon Amber gravel surfacing to towpath; Depth 50mm.	m ²	£##
R792.5	Supply and lay Breedon Wayfarer surfacing to towpath; Depth 50mm.	m ²	£##
R793.3	Supply and lay SBM (slag bound mixture with aggregate) surfacing to towpath; Depth 75mm.	m ²	£##
R793.4	Supply and lay SBM (slag bound mixture with aggregate) surfacing to towpath; Depth 50mm.	m ²	£##
R793.5	Supply and lay Ultramac (bitumen macadam and aggregate) surfacing to towpath; Depth 60mm.	m ²	£##
R791.1	Supply and lay bonded bitumen emulsion surfacing to towpath; Colas Leochip VLS or equivalent. (Aggregate dressing is additional)	m ²	£##
R791.2	Surface dressing aggregate to bitumen emulsion surfacing; Breedon Amber gravel	m ²	£##
	<u>Kerbs, Channels and Edgings</u>		
R691	Timber edging strips, 20 x 125mm in softwood.	m	£##
	<u>Light Duty Pavements</u>		
R794.1	Supply and lay granite setts in small areas not exceeding 5m ² .	m ²	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Roads & Pavings</u>		
	<u>Light Duty Pavements continued</u>		
	<u>Block Paving</u>		
R794.2	<u>Towpaths:</u> reference drawings 01 – 04 & 05 Supply and lay block paving to towpath. Solid engineering facing/paving quality bricks, laid on edge.	m ²	£##
R794.3	Supply and lay block paving to towpath. Solid engineering paving quality bricks, laid flat.	m ²	£##
R794.4	Supply and lay Tegular block paving to towpath.	m ²	£##
	<u>Other paving:</u>		
R794.5	Supply and lay block paving to lock quadrants & sides etc.. Solid engineering facing/paving quality bricks, laid on edge.	m ²	£##
R794.6	Supply and lay block paving to lock quadrants & sides etc.. Solid engineering paving quality bricks, laid flat.	m ²	£##
R794.7	Supply and lay Tegular block paving to lock quadrants & sides etc.	m ²	£##
	<u>Road Base and Surfacing in small quantities using small equipment</u> (not standard road paving machines) Nominal areas 100 m ²		
R232.2	DBM road base depth 30 – 60 mm	m ²	£##
R233.2	DBM road base depth 60 – 100 mm	m ²	£##
R252.3	Dense tarmacadam road base depth 30 – 60 mm	m ²	£##
R253.2	Dense tarmacadam road base depth 60 – 100 mm	m ²	£##
R231.2	DBM surfacing depth not exceeding 30mm	m ²	£##
R222.2	DBM surfacing depth 30 – 60 mm	m ²	£##
R251.2	Dense tarmacadam surfacing not exceeding 30mm	m ²	£##
R252.4	Dense tarmacadam surfacing depth 30 – 60 mm	m ²	£##
	<u>Re-laying of existing failed pavings</u>		
R794.8	Carefully break out existing brick paving, clean bricks of original mortar, level existing formation and re-lay original bricks using 3 to 1 sand cement mortar etc.	m ²	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Brickwork, Blockwork and Masonry</u>		
	NB: Straight walls means straight or curved to a radius in excess of 10m		
	<u>Common Brickwork; 3:1 sand:cement mortar</u>		
U111	Thickness: 102mm; vertical straight walls	m ²	£##
U121	Thickness: 215mm; vertical straight walls	m ²	£##
	<u>Common Brickwork; 2.25:1 lime:cement mortar</u>		
U111	Thickness: 102mm; vertical straight walls	m ²	£##
U121	Thickness: 215mm; vertical straight walls	m ²	£##
	<u>Surface features</u>		
U178	Fair facing	m ²	£##
	<u>Facing Brickwork; 3:1 sand:cement mortar</u>		
U211.1	Thickness: 102mm; vertical straight walls	m ²	£##
U221.1	Thickness: 215mm; vertical straight walls	m ²	£##
U231.1	Thickness: 250 - 500mm; vertical straight walls	m ²	£##
	<u>Facing Brickwork; 2.25:1 lime:cement mortar</u>		
U211.2	Thickness: 102mm; vertical straight walls	m ²	£##
U221.2	Thickness: 215mm; vertical straight walls	m ²	£##
U231.2	Thickness: 250 - 500mm; vertical straight walls	m ²	£##
	<u>Surface features</u>		
U278	Fair facing	m ²	£##
	<u>Class B Engineering Brickwork; 3:1 sand:cement mortar</u>		
U311.1	Thickness: 102mm; vertical straight walls	m ²	£##
U321.1	Thickness: 215mm; vertical straight walls	m ²	£##
U331.1	Thickness: 250 - 500mm; vertical straight walls	m ²	£##
	<u>Class B Engineering Brickwork; 2.25:1 lime:cement mortar</u>		
U311.2	Thickness: 102mm; vertical straight walls	m ²	£##
U321.2	Thickness: 215mm; vertical straight walls	m ²	£##
U331.2	Thickness: 250 - 500mm; vertical straight walls	m ²	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Surface features</u>		
U378.1	Fair facing	m ²	£##
	<u>Staffordshire Blue Engineering Brickwork; 3:1 sand:cement mortar</u>		
U311.3	Thickness: 102mm; vertical straight walls	m ²	£##
U321.3	Thickness: 215mm; vertical straight walls	m ²	£##
U331.3	Thickness: 250 - 500mm; vertical straight walls	m ²	£##
	<u>Staffordshire Blue Engineering Brickwork; 2.25:1 lime:cement mortar</u>		
U311.4	Thickness: 102mm; vertical straight walls	m ²	£##
U321.4	Thickness: 215mm; vertical straight walls	m ²	£##
U331.4	Thickness: 250 - 500mm; vertical straight walls	m ²	£##
	<u>Surface features</u>		
U378.2	Fair facing	m ²	£##
	<u>Surface Features; 3:1 sand:cement mortar</u> (reference drawing 03 – 10)		
U371.1	Coping bricks to parapet walls and canal wall tops, brick and a half thick (325mm nominal), solid, 25mm bullnose, half brick high	m	£##
U371.2	Coping bricks to parapet walls and canal wall tops, brick and a half thick (325mm nominal), solid, 25mm bullnose, 1 brick high	m	£##
U371.3	Coping bricks to parapet walls and canal wall tops, 2 brick thick (450mm nominal), solid, 25mm bullnose, 1 brick high	m	£##
	<u>Surface Features; 2.25:1 lime:cement mortar</u> (reference drawing 03 – 10)		
U371.4	Coping bricks to parapet walls and canal wall tops, brick and a half thick (325mm nominal), solid, 25mm bullnose, half brick high	m	£##
U371.5	Coping bricks to parapet walls and canal wall tops, brick and a half thick (325mm nominal), solid, 25mm bullnose, 1 brick high	m	£##
U371.6	Coping bricks to parapet walls and canal wall tops, 2 brick thick (450mm nominal), solid, 25mm bullnose, 1 brick high	m	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>General Ancillaries</u>		
	Movement Joints		
U383	Movement joints; using 12mm thick Korkpac filler or similar approved with Vertiseal sealant or similar approved	m ²	£##
	<u>Brickwork Repairs; Cut out existing cracked or spalled brickwork, remove from site and replace; any mortar</u>		
	Existing & new bricks solid, engineering quality, 75mm nominal brick height. Thickness not exceeding 150mm		
	Header bricks:		
U319.1	Individual bricks	Nr	£##
U319.2	Groups of 2-5 bricks	Nr	£##
U319.3	Groups of 5-10 bricks	Nr	£##
U319.4	Groups exceeding 10 bricks	m ²	£##
	Stretcher bricks:		
U319.5	Individual bricks	Nr	£##
U319.6	Groups of 2-5 bricks	Nr	£##
U319.7	Groups of 5-10 bricks	Nr	£##
U319.8	Groups exceeding 10 bricks	m ²	£##
	English bond: preserving the headers in the remaining wall		
U319.9	Individual bricks	Nr	£##
U319.10	Groups of 2-5 bricks	Nr	£##
U319.11	Groups of 5-10 bricks	Nr	£##
U319.12	Groups exceeding 10 bricks	m ²	£##
	Thickness 150 – 250mm		
	Header bricks:		
U329.1	Individual bricks	Nr	£##
U329.2	Groups of 2-5 bricks	Nr	£##
U329.3	Groups of 5-10 bricks	Nr	£##
U329.4	Groups exceeding 10 bricks	m ²	£##
	Stretcher bricks:		
U329.5	Individual bricks	Nr	£##
U329.6	Groups of 2-5 bricks	Nr	£##
U329.7	Groups of 5-10 bricks	Nr	£##
U329.8	Groups exceeding 10 bricks	m ²	£##
	English bond: preserving the headers in the remaining wall		
U329.9	Individual bricks	Nr	£##
U329.10	Groups of 2-5 bricks	Nr	£##
U329.11	Groups of 5-10 bricks	Nr	£##
U329.12	Groups exceeding 10 bricks	m ²	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	Thickness 250 – 500mm		
	Header bricks:		
U339.1	Individual bricks	Nr	£##
U339.2	Groups of 2-5 bricks	Nr	£##
U339.3	Groups of 5-10 bricks	Nr	£##
U339.4	Groups exceeding 10 bricks	m ²	£##
	Stretcher bricks:		
U339.5	Individual bricks	Nr	£##
U339.6	Groups of 2-5 bricks	Nr	£##
U339.7	Groups of 5-10 bricks	Nr	£##
U339.8	Groups exceeding 10 bricks	m ²	£##
	English bond: preserving the headers in the remaining wall		
U339.9	Individual bricks	Nr	£##
U339.10	Groups of 2-5 bricks	Nr	£##
U339.11	Groups of 5-10 bricks	Nr	£##
U339.12	Groups exceeding 10 bricks	m ²	£##
	<u>Ancillaries</u>		
U289.1	Cleaning of existing exposed facing brickwork by pressure washing.	m ² .	£##
U389.1	Cleaning of existing exposed engineering brickwork by pressure washing.	m ² .	£##
U789.1	Cleaning of existing exposed ashlar masonry by pressure washing.	m ²	£##
U889.1	Cleaning of existing exposed rubble masonry by pressure washing.	m ²	£##
U289.2	Grouting to gap between new facing and old brickwork. PFA cement grout 3 to 1, non shrink, pouring grade, target strength 5N/mm ² at 14 days. Nominal gap width 50mm.	m ²	£##
U789.2	Ditto to ashlar masonry facing	m ²	£##
U889.2	Ditto to rubble masonry facing	m ²	£##
	<u>Raking out and Repointing</u>		
	Raking out and repointing brickwork by hand, sand & cement mortar 3 to 1:		
U289.3	Generally, facing brickwork	m ²	£##
U289.4	Isolated areas, facing brickwork, not exceeding 1m ²	m ²	£##
U389.2	Generally, engineering brickwork	m ²	£##
U389.3	Isolated areas, engineering brickwork, not exceeding 1m ²	m ²	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
U889.3	Raking out and repointing masonry by hand, sand & cement mortar, 3 to 1: Rubble walling	m ²	£##
U789.3	Squared ashlar type stonework	m ²	£##
U289.5	Raking out and repointing brickwork by hand, sand & hydraulic lime mortar, 2.25 to 1, eminently hydraulic lime NHL 5: Generally, facing brickwork	m ²	£##
U289.6	Isolated areas, facing brickwork, not exceeding 1m ²	m ²	£##
U389.4	Generally, engineering brickwork	m ²	£##
U389.5	Isolated areas, engineering brickwork, not exceeding 1m ²	m ²	£##
U889.4	Raking out and repointing masonry by hand, sand & hydraulic lime mortar 2.25 to 1, eminently hydraulic lime NHL 5: Rubble walling	m ²	£##
U789.4	Squared ashlar type stonework	m ²	£##
<u>Rubble masonry walls; select and lay only</u>			
Hard sandstone / gritstone; 3:1 sand:cement mortar			
U821.1	Vertical or inclined at more than 75 degrees to the horizontal, straight or curved to a radius greater than 10m, slightly recessed joint finish; thickness 100 – 300mm	m ²	£##
U822.1	Vertical or inclined at more than 75 degrees to the horizontal, straight or curved to a radius greater than 10m, slightly recessed joint finish; thickness 300 – 600mm	m ²	£##
U823.1	Vertical or inclined at more than 75 degrees to the horizontal, straight or curved to a radius greater than 10m, slightly recessed joint finish; thickness 600 – 900mm	m ²	£##
Hard sandstone / gritstone; 2.25:1 sand:lime mortar, NHL 5			
U821.2	Vertical or inclined at more than 75 degrees to the horizontal, straight or curved to a radius greater than 10m, slightly recessed joint finish; thickness 100 – 300mm	m ²	£##
U822.2	Vertical or inclined at more than 75 degrees to the horizontal, straight or curved to a radius greater than 10m, slightly recessed joint finish; thickness 300 – 600mm	m ²	£##
U823.2	Vertical or inclined at more than 75 degrees to the horizontal, straight or curved to a radius greater than 10m, slightly recessed joint finish; thickness 600 – 900mm	m ²	£##
Hard limestone; 3:1 sand:cement mortar			
U821.3	Vertical or inclined at more than 75 degrees to the horizontal, straight or curved to a radius greater than 10m, slightly recessed joint finish; thickness 100 – 300mm	m ²	£##
U822.3	Vertical or inclined at more than 75 degrees to the horizontal, straight or curved to a radius greater than 10m, slightly recessed joint finish; thickness 300 – 600mm	m ²	£##
U823.3	Vertical or inclined at more than 75 degrees to the horizontal, straight or curved to a radius greater than 10m, slightly	m ²	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	recessed joint finish; thickness 600 – 900mm		
	Hard limestone; 2.25:1 sand:lime mortar, NHL 5		
U821.4	Vertical or inclined at more than 75 degrees to the horizontal, straight or curved to a radius greater than 10m, slightly recessed joint finish; thickness 100 – 300mm	m ²	£##
U822.4	Vertical or inclined at more than 75 degrees to the horizontal, straight or curved to a radius greater than 10m, slightly recessed joint finish; thickness 300 – 600mm	m ²	£##
U823.4	Vertical or inclined at more than 75 degrees to the horizontal, straight or curved to a radius greater than 10m, slightly recessed joint finish; thickness 600 – 900mm	m ²	£##
	<u>Rubble masonry facing to backing structure; select and lay only</u>		
	Hard sandstone / gritstone; 3:1 sand:cement mortar; including galvanised brick ties or similar		
U821.5	Vertical or inclined at more than 75 degrees to the horizontal, straight or curved to a radius greater than 10m, slightly recessed joint finish; thickness 100 – 200mm	m ²	£##
	Hard sandstone / gritstone; 2.25:1 sand:lime mortar; NHL 5, including galvanised brick ties or similar		
U821.6	Vertical or inclined at more than 75 degrees to the horizontal, straight or curved to a radius greater than 10m, slightly recessed joint finish; thickness 100 – 200mm	m ²	£##
	Hard limestone; 3:1 sand:cement mortar; including galvanised brick ties or similar		
U821.7	Vertical or inclined at more than 75 degrees to the horizontal, straight or curved to a radius greater than 10m, slightly recessed joint finish; thickness 100 – 200mm	m ²	£##
	Hard limestone; 2.25:1 sand:lime mortar; NHL 5, including galvanised brick ties or similar		
U821.8	Vertical or inclined at more than 75 degrees to the horizontal, straight or curved to a radius greater than 10m, slightly recessed joint finish; thickness 100 – 200mm	m ²	£##
	<u>Stone Copings, select and lay only</u>		
U771.1	Lay large stone copings to top of canal wall or similar; coping size not exceeding 0.2 m ³	m	£##
U771.2	Lay large stone copings to top of canal wall or similar; coping size not exceeding 0.3 m ³	m	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
U771.3	Lay large stone copings to top of canal wall or similar; coping size not exceeding 0.4 m ³	m	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Miscellaneous Work</u>		
	<u>Fences</u>		
X112.1	Supply and Install timber post and three rail fence, BS 1722 part 7, to accesses as per the Specification: Height 1.1m	m	£##
X112.2	Extra over for end post	Nr	£##
X112.3	Extra over for angle post	Nr	£##
X112.4	Extra over for intersection post	Nr	£##
X112.5	Animal proof netting/mesh to new post & rail fence to protect new hedge plants	m	£##
X122.1	Supply and Install timber post and wire stock proof fence, BS 1722 part 3, to accesses as per the Specification: Height 1.1m	m	£##
X122.2	Extra over for end post and one strut	Nr	£##
X122.3	Extra over for corner post and two struts	Nr	£##
X122.4	Animal proof netting/mesh to new post & wire fence to protect new hedge plants	m	£##
X195	Galvanised metal palisade fencing with split triple point palings; height 2.1 m nominal; panel width 2.75m; including all fixings, fittings and posts	m	£##
	<u>Gates</u> (reference drawing 06 – 08)		
X215.1	Supply and install treated timber field gates to accesses. 3 metres wide with 5 bars and diagonal bracing, including all fittings & fixings, posts, etc.	Nr	£##
X234	Supply and install metal field gates to accesses, 3m wide, height to top of gate 1200mm, 5 rail, diagonal bracing, including all fittings and fixings, posts, etc.	Nr	£##
	<u>Gabions</u>		
	Gabion box filled with hard sandstone, grading 150 to 200mm clean stone. Box to be welded mesh in high tensile zinc coated steel, wire diameter 4mm, mesh size 75 x 75 mm nominal		
X411.1	Gabion box 1 x 1 x 1 m ³	Nr	£##
X411.2	Gabion box 2 x 1 x 1 m ³	Nr	£##
X411.3	Gabion box 3 x 1 x 1 m ³	Nr	£##
X411.4	Gabion box 4 x 1 x 1 m ³	Nr	£##
X411.5	Gabion box 1 x 1 x 0.5 m ³	Nr	£##
X411.6	Gabion box 2 x 1 x 0.5 m ³	Nr	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	Gabion box filled with hard limestone, remaining details as above		
X412.1	Gabion box 1 x 1 x 1 m ³	Nr	£##
X412.2	Gabion box 2 x 1 x 1 m ³	Nr	£##
X412.3	Gabion box 3 x 1 x 1 m ³	Nr	£##
X412.4	Gabion box 4 x 1 x 1 m ³	Nr	£##
X412.5	Gabion box 1 x 1 x 0.5 m ³	Nr	£##
X412.6	Gabion box 2 x 1 x 0.5 m ³	Nr	£##
	<u>British Waterways works (Furniture supplied by the Employer)</u>		
X511	Pile mounted mooring ring with granite sett paving behind, all as drawing 05 - 04. Details of mooring ring are shown on reference drawing 05/01	Nr	£##
X521	Bollard; cast into mass concrete foundation C35 mix; including all necessary excavation, disposal, formwork, trowelled top surface, 1:3 Portland Cement render, mastic, engineering bricks and painting of the ring after Installation, all as reference drawing 05 - 02.	Nr	£##
X512	Mooring ring; cast into mass concrete foundation C35 mix; including all necessary excavation, disposal, formwork, trowelled top surface, 1:3 Portland Cement render, mastic, engineering bricks and painting of the bollard after Installation, all as reference drawing 05 - 03.	Nr	£##
X531	Galvanised steel lock ladder drilled and expansion bolted to recess in concrete/brickwork/masonry lock wall. Fixings at 600mm centres: 450 wide.	m	£##
	<u>Bridge number plates/signs - typical size 200x150 ellipse</u>		
X541	Fix and paint new plates supplied by the Employer	Nr	£##
X542	Remove, repair, re-paint and re-fix existing plates	Nr	£##
X543	"Overhead electrical cable" warning signs (fix only)	Nr	£##
	<u>Reed Replanting</u>		
X611	Hessian Sacks; Provision and Installation of reed filled hessian sacks; including timber pegs etc.	Nr	£##
X612	Polypropylene Sacks; Provision and Installation of reed filled polypropylene sacks; including timber pegs etc.	Nr	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Pre-Planted Fibre Rolls</u> (reference drawings 03 – 02 to 03 – 05)		
X621	Fibre roll system 1; diameter 300mm	m	£##
X622	Fibre roll system 1; diameter 400mm	m	£##
X631	Fibre roll system 2; up to 500mm high Nicospan or similar	m	£##
X632	Fibre roll system 2; between 500mm and 1000mm high Nicospan or similar	m	£##
X641	Fibre roll system 3; diameter 300mm	m	£##
X642	Fibre roll system 3; diameter 400mm	m	£##
X651	Fibre roll system 4; diameter 300mm	m	£##
X652	Fibre roll system 4; diameter 400mm	m	£##
	<u>Drainage</u>		
X711	Excavate trenches; depth n.e. 1.5m; Install 100mm PVC perforated land drain; 300mm granular material surround; excavated material to remain on site. Replace topsoil etc.	m	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<p><u>Culverts</u></p> <p>The following assumptions apply to all items: Culverts under the canal or navigation, in lengths of 20m to 40m typically. Culvert construction in brick or stone, of reasonable shape with no large protrusions or deformations. Direct access to each end of the culvert is available. Disposal of material from the culvert is measured under other sections.</p> <p><u>Preparation:</u></p>		
Y111	Cleaning of culvert using pressure water jetting	m	£##
Y112.1	Cleaning of hard debris build up from within culvert by mechanical means, winch & bucket system or similar	m	£##
Y112.2	Disposal off site of culvert hard debris, brick, stone, gravel, sand; non-hazardous waste. Rate to exclude any Tax levies		
Y131	CCTV survey	m	£##
	<p><u>Stabilisation:</u> Assumptions: The following items are for person-accessible culverts > 1m diameter</p>		
Y211	Pointing internal face of culvert with 1:3 cement/sand quick set mortar	m ²	£##
Y231	Grouting to back of extrados of culvert, number of holes	nr	£##
Y233	Grouting to back of extrados of culvert, length of holes	m	£##
Y234	Grouting to back of extrados, number of injections, maximum pressure 1 Bar	nr	£##
Y232.1	Grouting to back of extrados, 1:3 cement/pfa grout, , materials	m ³	£##
Y232.2	Grouting to back of extrados of culvert, 2:7:1 cement/pfa/bentonite grout, materials	m ³	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Culverts (cont'd)</u>		
	<u>Renovation:</u>		
	Assumptions: The following items are for non person-accessible culverts < 1m diameter		
	The following items are for cured in-situ structural sock liners (blown liners)		
	<u>Length 10 to 20m:</u>		
Y312.1.1	Diameter 200 – 300mm	m	£##
Y312.1.2	Diameter 300 – 450mm	m	£##
Y312.1.3	Diameter 450 – 600mm	m	£##
Y312.1.4	Diameter 600 – 750mm	m	£##
Y312.1.5	Diameter 750 – 900mm	m	£##
Y312.1.6	Diameter 900 – 1050mm	m	£##
	<u>Length 20 to 30m:</u>		
Y312.2.1	Diameter 200 – 300mm	m	£##
Y312.2.2	Diameter 300 – 450mm	m	£##
Y312.2.3	Diameter 450 – 600mm	m	£##
Y312.2.4	Diameter 600 – 750mm	m	£##
Y312.2.5	Diameter 750 – 900mm	m	£##
Y312.2.6	Diameter 900 – 1050mm	m	£##
	<u>Length 30 to 40m:</u>		
Y312.3.1	Diameter 200 – 300mm	m	£##
Y312.3.2	Diameter 300 – 450mm	m	£##
Y312.3.3	Diameter 450 – 600mm	m	£##
Y312.3.4	Diameter 600 – 750mm	m	£##
Y312.3.5	Diameter 750 – 900mm	m	£##
Y312.3.6	Diameter 900 – 1050mm	m	£##
	The following items are for in-situ jointed polyethylene pipe linings, 1 Bar rating, sections butt welded or equivalent.		
	<u>Length 10 to 20m:</u>		
Y321.1.1	Diameter 200 – 300mm	m	£##
Y321.1.2	Diameter 300 – 450mm	m	£##
Y321.1.3	Diameter 450 – 600mm	m	£##
Y321.1.4	Diameter 600 – 750mm	m	£##
Y321.1.5	Diameter 750 – 900mm	m	£##
Y321.1.6	Diameter 900 – 1050mm	m	£##
	<u>Length 20 to 30m:</u>		
Y321.2.1	Diameter 200 – 300mm	m	£##
Y321.2.2	Diameter 300 – 450mm	m	£##
Y321.2.3	Diameter 450 – 600mm	m	£##
Y321.2.4	Diameter 600 – 750mm	m	£##
Y321.2.5	Diameter 750 – 900mm	m	£##
Y321.2.6	Diameter 900 – 1050mm	m	£##

Schedule 1 (Cont'd)

PERMANENT WORKS ITEMS

Item	Description	Unit	Rate
	<u>Length 30 to 40m:</u>		
Y321.3.1	Diameter 200 – 300mm	m	£##
Y321.3.2	Diameter 300 – 450mm	m	£##
Y321.3.3	Diameter 450 – 600mm	m	£##
Y321.3.4	Diameter 600 – 750mm	m	£##
Y321.3.5	Diameter 750 – 900mm	m	£##
Y321.3.6	Diameter 900 – 1050mm	m	£##
	Annulus grouting to polyethylene pipe linings, length 10 to 40m: High flow, non shrink, general purpose, cementitious annulus grout		
Y361.1	Diameter 200 – 300mm	m ³	£##
Y361.2	Diameter 300 – 450mm	m ³	£##
Y361.3	Diameter 450 – 600mm	m ³	£##
Y361.4	Diameter 600 – 750mm	m ³	£##
Y361.5	Diameter 750 – 900mm	m ³	£##
Y361.6	Diameter 900 – 1050mm	m ³	£##

General:

When projects are carried out under the contract the bill of quantity for schedule 1 items shall be compiled in accordance with the numbering system in the Table.

Additional items for Class A General Items shall be referenced in a similar manner to those already scheduled in the Table. For Class A items the coding system is based on the Civil Engineering Standard Method of Measurement 3rd Edition (CESMM3).

Final Percentage Adjustments

Table 1.4

CODE	DESCRIPTION	PERCENTAGE
A120	<p>The percentage inserted against each of the following items is to be applied separately, not cumulatively, to the net target cost for a Package Order, as a final adjustment to establish the Total of the Prices.</p> <p>CONTRACT INSURANCE, including Employers Liability and Professional Indemnity, as detailed in the document</p> <ul style="list-style-type: none"> ➤ Loss or damage to property (excluding the works) ➤ Bodily injury or death of a person, not an employee of the <i>Supplier</i> ➤ Loss or damage to the Works, Plant & Materials ➤ Failure to use professional skill & care 	## %
A711	<p>MAINTENANCE & MAKING GOOD</p> <p>All costs in maintaining and running the site and for making good on completion, are to be included in the rates inserted in Table 1.3</p>	N/A
A721	<p>YARD ISSUES</p> <p>All costs associated with running and maintaining the <i>Supplier's</i> central & local stores, plant & equipment, are to be included in the rates inserted in Table 1.3</p>	N/A

END OF SECTION 2, SCHEDULE 1

SECTION 2

Schedule 2 – Minor Works Team Schedule of Rates

The *Supplier* shall insert his rates, prices and percentages into the tables below.
Rates to be all-inclusive.

Rates per day are to be built up on the following assumptions:-

- Continuity of work for 1 gang
- 9 Hour working day (inclusive of breaks)
- Up to 1 hour of travel each way to site
- Total hours are 11.
- No lodge allowance to be included
- Fuel for plant included within rates
- Maintenance of plant included within rates

Minor Works Daily Team Rate:

Table 2.1

CODE	DESCRIPTION	Note	UNIT	RATE Per day
SW2	Working Foreman		Day	£##
SW3	Craftsman Bricklayer / Joiner (multi skilled)		Day	£##
SW4	Plant Operator (multi skilled)		Day	£##
SW5	Utility Van		Day	£##
SW6	Pick-Up / trailer	carrying capacity 1.5t	Day	£##
SW7	Level & staff		Day	£##
SW8	Fuel for Utility Van	% of Plant	## %	£##
SW9	Breaker		Day	£##
SW10	Pneumatic Pick		Day	£##
SW11	Stihl Saw		Day	£##
SW12	4 Kva Generator		Day	£##
SW13	Angle Grinder		Day	£##
SW14	Drill		Day	£##
SW15	Hammer Drill		Day	£##
SW16	P.P.E	% of Labour	## %	£##
SW17	Welfare & Safety	% of Labour	## %	£##
SW18	Small Tools	% of Labour	## %	£##
SW19	Other costs (list & insert as & if necessary)			£##
TOTAL TEAM RATE per DAY:			Day	£##

SECTION 2

Schedule 2 (Cont'd)

The *Supplier* shall indicate in table 2.2 below his proposed percentage adjustment, for the Geographic areas shown. (The geographical areas are the areas indicated in Laxton's Building Price Book 2007)

Schedule 2 Geographical Location Percentage Adjustment Table 2.2

Location	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Scotland						
Northern						
Yorks & Humber						
North West						
East Midlands						
West Midlands*						
Wales						
South East & Outer London						
Inner London						
East Anglia						
Avon, Dorset, Wilts, Gloucs						
Cornwall, Devon, Somerset						

* *base rate – West Midlands*

END OF SECTION 2, SCHEDULE 2

SECTION 2

Schedule 3 – Supplier's Core Team Staff Rates (for payment of services)

The *Supplier* shall insert his rates, prices and percentages into the tables below.
Not all categories will necessarily form part of the core team. The exact team composition shall be agreed with the *Project Manager*.
Categories that do not apply are to be marked as N/A.
The *Supplier* may insert additional categories of people if necessary.

Table 3.1

CODE	DESCRIPTION	Note	UNIT	RATE £
CT1	Contract Framework Manager		Week	##
CT2	Senior Project Manager		Week	##
CT3	Project Manager		Week	##
CT4	Senior Agent		Week	##
CT5	Agent		Week	##
CT6	Managing Quantity Surveyor		Week	##
CT7	Senior Quantity Surveyor		Week	##
CT8	Quantity Surveyor		Week	##
CT9	Assistant Quantity Surveyor		Week	##
CT10	Senior Estimator		Week	##
CT11	Estimator		Week	##
CT12	Engineering Manager	Construction	Week	##
CT13	Senior Engineer	Ditto	Week	##
CT14	Engineer	Ditto	Week	##
CT15	Junior Engineer		Week	##
CT16	Planner Programmer		Week	##
CT17	Works Operations Manager	Includes minor works team	Week	##
CT18	Design Manager	Design & temporary works	Week	##
CT19	Senior Design Engineer	Ditto	Week	##
CT20	Design Engineer	Ditto	Week	##
CT21	Senior Geotechnical Engineer		Week	##
CT22	Geotechnical Engineer		Week	##
CT23	Senior M&E Engineer	M&E Coordinator	Week	##
CT24	M&E Engineer		Week	##

CODE	DESCRIPTION	Note	UNIT	RATE £
CT25	#####		Week	##
CTM	Mileage rate		Mile	##

Note that:

- Staff involved in site works, such as foremen & sub-agents, are included in schedule 1.
- The rates are to be all-inclusive, allowing for all management fees, overhead and profit, etc.
- The rates shall include for any allowances or costs associated with provision of emergency call out facilities.
- Personal expenses are separate.
- Mileage to be applied to BW business only and excludes travel to and from work and personal mileage.

The *Supplier* shall indicate in table 3.2 below his proposed percentage adjustment, for the Geographic areas shown. (The geographical areas are the areas indicated in Laxton's Building Price Book 2007)

Schedule 3 Geographical Location Percentage Adjustment Table 3.2

Location	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Scotland						
Northern						
Yorks & Humber						
North West						
East Midlands						
West Midlands*						
Wales						
South East & Outer London						
Inner London						
East Anglia						
Avon, Dorset, Wilts, Gloucs						
Cornwall, Devon, Somerset						

* base rate – West Midlands

END OF SECTION 2, SCHEDULE 3

SECTION 2

Schedule 4 – Emergency Call Out Situations

Rates applicable to Structural Failure Situations

The *Supplier* shall insert his rates, prices and percentages into the table 4.1 below.

Table 4.1

CODE	DESCRIPTION	ITEM	UNIT	RATE
	<p><u>Enhancement to normal Fee Percentages for Structural Failure Situations</u></p> <p>To be applied to all items of Defined Cost for the work</p>			
SF 1	Direct fee percentage enhancement		%	##
SF 2	Subcontracted fee percentage enhancement		%	##

Table 4.2 - Names of Preferred Companies & Suppliers for Canal Breach & Infrastructure Failure:

The following table shall be completed and expanded as necessary at the time of tender.

NUMBER	NAME OF COMPANY/SUPPLIER	GEOGRAPHIC COVERAGE	NOTES & COMMENTS
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Rates for Reservoir Emergency Drawdown (RED) Situation

The *Supplier* shall insert his rates, prices and percentages into the table 4.3 below. Rates are to include for all ancillary and associated items for the operation of the pumping systems. These rates shall be used as elements of the Defined Cost for the items concerned.

If any of the percentages are not relevant to the *Supplier's* pricing mechanism, then these shall be marked as 'not applicable' (N/A) and shall be deemed to be included elsewhere.

Items requiring a rate or price shall be fully completed. Rates and prices not completed or filled in shall be deemed to be included elsewhere in the completed rates.

Table 4.3

CODE	DESCRIPTION	ITEM	UNIT	RATE
	<u>Generators for pumps:</u> Including all cabling, etc			
RED 1.1.1	25 KVA Generator	Hire	wk	##
RED 1.1.2		Maintain	wk	##
RED 1.2.1	50 KVA Generator	Hire	wk	##
RED 1.2.2		Maintain	wk	##
RED 1.3.1	100 KVA Generator	Hire	wk	##
RED 1.3.2		Maintain	wk	##
RED 1.4.1	500 KVA Generator	Hire	wk	##
RED 1.4.2		Maintain	wk	##
RED 1.5.1	1000 KVA Generator	Hire	wk	##
RED 1.5.2		Maintain	wk	##
	<u>Electric Submersible Pumps:</u>			
RED 2.1.1	150 mm	Hire	wk	##
RED 2.1.2		Maintain	wk	##
RED 2.1.3		Hose	m/wk	##
RED 2.2.1	200 mm	Hire	wk	##
RED 2.2.2		Maintain	wk	##
RED 2.2.3		Hose	m/wk	##
RED 2.3.1	250 mm	Hire	wk	##
RED 2.3.2		Maintain	wk	##
RED 2.3.3		Hose	m/wk	##
RED 2.4.1	300 mm	Hire	wk	##
RED 2.4.2		Maintain	wk	##
RED 2.4.3		Hose	m/wk	##
	<u>Floating Support Pontoons, Floats, etc</u>			
RED 3.1.1	For 150 mm pump	Hire	wk	##
RED 3.1.2		Maintain	wk	##
RED 3.2.1	For 200 mm pump	Hire	wk	##
RED 3.2.2		Maintain	wk	##

CODE	DESCRIPTION	ITEM	UNIT	RATE
RED 3.3.1	For 250 mm pump	Hire	wk	##
RED 3.3.2		Maintain	wk	##
RED 3.4.1	For 300 mm pump	Hire	wk	##
RED 3.4.2		Maintain	wk	##
	Mobile Cranes	All inclusive rate Day = 24 hours		
RED 5.1	20 T Mobile		day	##
RED 5.2	40 T Mobile		day	##
RED 5.3	60 T Mobile		day	##
RED 5.4	80 T Mobile		day	##
RED 5.5	100 T Mobile		day	##
RED 5.6	150 T Mobile		day	##
RED 5.7	200 T Mobile		day	##
	Work Boat			
RED 6.1	Powered work boat		wk	##

Table 4.4 - Names of Preferred Companies & Suppliers for RED:

The following table shall be completed and expanded as necessary.

NUMBER	NAME OF COMPANY/SUPPLIER	GEOGRAPHIC COVERAGE	NOTES & COMMENTS
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

The *Supplier* shall indicate in table 4.5 below his proposed percentage adjustment, for the Geographic areas shown. (The geographical areas are the areas indicated in Laxton's Building Price Book 2007)

Schedule 4 Geographical Location Percentage Adjustment Table 4.5

Location	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Scotland						
Northern						
Yorks & Humber						
North West						
East Midlands						
West Midlands*						
Wales						
South East & Outer London						
Inner London						
East Anglia						
Avon, Dorset, Wilts, Gloucs						
Cornwall, Devon, Somerset						

* *base rate – West Midlands*

The above adjustments are applied to the rates in Table 4.3

Table 4.6

CODE	DESCRIPTION	ITEM	UNIT	RATE
	<p><u>Enhancement to normal Fee Percentages for Reservoir Emergency Drawdown and 24 hour operations</u> To be applied to all items of Defined Cost for the work</p>			
RED 7.1	Direct fee percentage enhancement		%	##
RED 7.2	Subcontracted fee percentage enhancement		%	##

END OF SECTION 2, SCHEDULE 4

& END OF SECTION 2

SECTION 3:

Process for Pricing Target Cost Items not included or covered by Schedule 1

General:

Where an item in a bill of quantity is not covered by a rate in Schedule 1, the following process shall be adopted to produce a rate for inclusion in the build up of the Total of the Prices for a target cost.

If the item is similar to one in the Schedules:

Where the work is different but similar to that in the Schedule, the build up for the rate in the Schedules shall be used as the basis for the calculation of the new rate.

This shall be achieved by making any necessary adjustments to the labour and plant norms and/or the material rates.

The elements making up the Schedule rates, compiled at the time of tender, shall be made available for this purpose at the start of the contract.

The new rate shall be agreed by the *Project Manager*.

If the item is dissimilar to any existing in the Schedules:

Where the work is different and dissimilar to that in the Schedule, the *Supplier* shall build up a new rate by using the 'Labour, Plant, Materials' approach as a basis for the new rate.

The Labour rates shall be as tendered in the Labour Schedule in table 5.2 below at the time of tender. The rates shall be all-inclusive, based on a 45 hour week for working in England.

Percentage adjustments to the rate for working in England are included in the table for working inside the M25 and for working in Scotland.

The Plant rates shall be as contained in Schedule 1.

Any additional Plant rates shall be taken from the rates published by CECA in the schedule of dayworks July 2007 together with any published amendments and with the following provisions:

- (i) The assumption has been made that the plant in question has to be brought to site and hence there is a percentage uplift to the published rate. CECA states this as 12.5%.
- (ii) A percentage adjustment is to be made by the *Supplier* to the published rate, if required, for the effects of inflation from the rate publication date to the contract date.
- (iii) In addition the *Supplier* is invited to offer a tendered percentage adjustment to the published gross rates, as this is not for work on a daywork basis but would form part of a target cost build up.

These 3 percentage adjustments are to be consolidated into one adjustment in Table 5.3 at the time of tender.

There is an allowance in the table for different percentages for inside the M25 and for Scotland if these are required.

Database for New rates:

A database shall be maintained by the *Supplier* for all new rates calculated by these processes for use in other future target costs.

Subcontract Quotations:

If the processes mentioned above are not able to produce a rate, the *Supplier* shall obtain competitive subcontract quotations for the work item(s) concerned. This shall be following the agreement of the *Project Manager* to the contract.

A minimum of 3 quotations shall be obtained by using Subcontractors taken from the *Supplier's* supply chain management system or sourced via his procurement/buying department. For those Subcontractors coming from outside the supply chain system, the *Project Manager* (is to be notified of those selected).

In Table 5.1 below, the *Supplier* is to add in his management fee to the subcontract quotation which goes into the target cost build up as a result of this process. The fee is to cover all overheads, profit and notional gain share.

Table 5.1

Description:	Percentage:
Management Fee for Subcontract Quotations: <ul style="list-style-type: none"> ➤ For items not covered by the schedules or amenable to a new rate build up. ➤ For use in Target Cost build ups. For clarity, this is <u>not</u> the NEC <i>subcontracted fee percentage</i> used for adding to the Defined Cost of work (although it may be the same figure by coincidence)	## %

Mechanical & Electrical Works M&E:

For projects which contain elements of M&E works, the process for Subcontract Quotation shall be adopted when compiling the target cost for this part of the work.

Subcontract Quotations, General

In the event that it is not possible to obtain 3 quotations then a reduced number or a single quotation shall only be acceptable following the agreement of the *Project Manager*.

The *Supplier* shall indicate in table 5.2 below his proposed percentage adjustment, for the Geographic areas shown. (The geographical areas are the areas indicated in Laxton's Building Price Book 2007)

Schedule 5 Geographical Location Percentage Adjustment Table 5.2

Location	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Scotland						
Northern						
Yorks & Humber						
North West						
East Midlands						
West Midlands*						
Wales						
South East & Outer London						
Inner London						
East Anglia						
Avon, Dorset, Wilts, Gloucs						
Cornwall, Devon, Somerset						

* *base rate – West Midlands*

The above adjustments are applied to the rates in Tables 5.3 and 5.4

Labour Schedule for new rate build up for use in target costs:

Table 5.3

ITEM	DESCRIPTION	RATE
		£/week
1	Ganger	##
2.1	Labourer, multi skilled operative	##
2.2	Labourer, operative	##
3	Joiner	##
4	Steel-fixer	##
5.1	Bricklayer	##
5.2	Bricklayer's assistant	##
6.1	Stonemason	##
6.2	Stonemason's assistant	##
7.1	Plant operator (dumpers)	##
7.2	Plant operator (mini excavators)	##
7.3	Plant operator (360 ⁰ excavators)	##
8	Fitter, welder	##
9	Pipe-layer (standard pipes)	##
10	Banksman	##
11	Spray painter	##
12	Brush painter	##

N.B. The *Supplier* may insert additional categories of people if necessary.

Plant Schedule of adjustments, for new rate build up for use in target costs:

Table 5.4

ITEM	DESCRIPTION	PERCENTAGE
		<u>Total % Adjustment to Published Rate</u>
	Category:	
1	Access platforms	##
4	Compressors	##
6	Concrete equipment	##
7	Cranes	##
8	Crane equipment	##
9	Dumpers	##
10	Excavators	##
11	Generating sets & transformers	##
14	Lorries, vans etc.	##
17	Piling plant	##
20	Pumps, portable	##
21	Pumping equipment	##
22	Rammers & compactors	##
23	Rollers	##
27	Shuttering	##
30	Tools, pneumatic	##
31	Tools, portable, electric	##
35	Welding & cutting sets	##
37	Miscellaneous plant & consumable stores	##

Item reference numbers correspond to the CECA numbering system.

Overall rate adjustment shall allow for:

- Bringing plant to site
- Effects of inflation from publication date
- Rate not being a daywork rate but a rate for target cost build up

END OF SECTION 3

END OF THE SCHEDULE OF RATES

PART TWELVE
INCENTIVE SCHEDULE FOR NEC ECC PACKAGE ORDERS

Incentive Schedule for NEC ECC Package Orders

Key Performance Indicators

For Projects carried out under the various Options of the Framework.

Introduction:

Key Performance Indicators (KPI's) are required under this contract for the following reasons:

- To emphasise the importance that the *Employer* places on these issues.
- To show that minimum yet high standards are being laid down as a benchmark.
- To demonstrate whether year on year improvements are being achieved.
- To exhibit certain measures of value that the contractual arrangement generates.

For these reasons the *Supplier's* element of the KPI's are incentivised and linked to 50% of the Contractor's part of the gain share, this being 50% of the total gain share on any particular project. The gain share is generated through the difference between the final target cost and the final Defined Cost on each project, when the latter is of a lesser amount.

In addition to this, there are three KPI's relating to the *Employer's* performance. These cover aspects of *the Employer's* delivery processes. Failure on all of these would result in an additional 20% bonus to the *Supplier's* achieved gain share for his KPI element.

These are explained in more detail over the sections which follow.

KEY PERFORMANCE INDICATOR SUMMARY CHART:

Item	Description	Method of Measurement & monitoring	K.P.I. Payment	Weight
1.	Health & Safety	This K.P.I. will be measured against <i>Supplier's</i> independent Safety Inspection reports carried out by the <i>Supplier's</i> Safety Adviser based on an agreed schedule of detailed safety checks.	<p>K.P.I. payment will not be made if the following scores are exceeded:</p> <ul style="list-style-type: none"> • more than two "severe sub-standard" reports across all sites within a three month measurement period; • any site with two consecutive "sub-standard" reports for the same site and safety check parameter. <p>No K.P.I. payment will be made for a period of twelve months for any site receiving an Improvement or Prohibition Notice from the Health and Safety Executive.</p>	15%
2.	Quality	<p>This measure is for Defects prior & up to Completion where it is anticipated that the <i>Employer</i> will be subjected to additional Defined Costs as a result of correcting such Defects.</p> <p>Measurement will be based on the number of Defect notices issued by the <i>Project Manager</i>.</p>	<p>Payment of KPI will be made for 95% of projects being free from defects on completion.</p> <p>No K.P.I. payment will be made if less than the 95% figure is achieved.</p> <p>Assessment will be made quarterly.</p>	15%
3.	Time	<u>Revising the Programme</u> - Compliance with the provisions of Clause 32 of the <i>conditions of contract</i> with monthly updates.	<p>95% by number of the programme revisions required under Clause 32.</p> <p>No payment will be made for less than 95% by number of the programme revisions required under Clause 32.</p>	10%
4.	Value	<p>(i) <u>Project Out-turn Cost</u> – Production of cost forecasts to the requirements of Clause 20.4 of the <i>conditions of contract</i> for each Work Order. The <i>Project Manager</i> will verify the quality of the forecast to give an approved compliance with this K.P.I.</p> <p>(ii) <u>Payment to Subcontractor's</u> – Payment at or in advance of the Subcontract final date for payment.</p> <p>(iii) <u>PAR Budget Cost versus Target Cost, for construction (only)</u> Target cost to be compared to Project Assessment Report, PAR, budget cost forecast.</p>	<p><u>Project Out-turn Cost</u> – K.P.I. payment will be based on 90% by number of completion forecasts which are within 5% of previous value after accounting for comp events. No payment will be made for less than 90% by number of completion forecasts outside of the 5% range. No KPI payment will be made if any forecasts are greater than 10% of the previous value after accounting for comp events.</p> <p><u>Payment to Subcontractor's</u> – K.P.I. payment will only be made for 100% compliance with this measure.</p> <p>Payment of KPI will be made for 95% or more of target costs being within + or - 5% of the forecast budgets at PAR stage, discounting the effects of scope changes, compensation events, etc.</p>	<p>15%</p> <p>10%</p> <p>15%</p>

Continued....

Item	Description	Method of Measurement & monitoring	K.P.I. Payment	Weight
5.	Environment & Heritage	(i) <u>Environment</u> – Environmental Incident Report under the provisions of ISO 14001.	<u>Environment</u> – K.P.I. payment will be made for 1 or less Incident reports as defined in the measurement per Work Order, subject to below. No payment will be made for more than 3 Incident reports across all Work Orders in any quarter. No payment will be made for a 12 month period for any enforcement action or notifications from Local Authorities, EA, SEPA, Natural England, Scottish Natural Heritage, Countryside Council for Wales	5%
		(ii) <u>Heritage</u> – Damage to canal infrastructure and/or hard landscape.	<u>Heritage</u> – K.P.I. payment will be made for 1 or less Incident reports, as defined in the measurement, per Work Order, subject to below. No payment will be made for more than 3 Incident reports across all Work Orders in any quarter. K.P.I. payment will not be paid for damage to listed structures of all categories for a 12 month period or for negative actions from Local Authorities, English Heritage, CADW, Historic Scotland, etc or for contravention of Planning Consent.	5%
6.	Sustainability	(i) <u>Carbon Footprint</u> – measured for each work Package at target cost stage for the site works.	KPI payment will be for a percentage carbon footprint reduction for the actual works compared to the pre-works value.	5%
		(ii) <u>Site Waste Management Plan</u> – compiled by <i>Supplier</i> for each project at target cost stage including quantities of waste to be produced & disposal options.	KPI payment will be for betterment of the plan in terms disposal options & quantities.	5%
			TOTAL =	100%
7.	Employer	(i) <u>Work Package Delivery Dates</u> - measured for each work package	KPI payment will be achieved if 80% are delivered within pre-agreed programme time. Failure results in 10% KPI related gain share bonus to <i>Supplier</i> .	+10%
		(ii) <u>New Projects added to Master Programme during the Year</u> - Measure is on Work Package delivery dates	KPI payment will be achieved if 80% are delivered within pre-agreed programme time. Failure results in 5% KPI related gain share bonus to <i>Supplier</i> .	+5%
		(iii) <u>Site Start Dates</u> – measured on number of start dates not achieved due to <i>Employer</i> changes or deferrals following issue of Work Package.	KPI payment achieved if there are less than 6 deferrals in the year. Failure results in 5% KPI related gain share bonus to <i>Supplier</i> .	+5%
			TOTAL =	20%

KPI Payment – Definition and Details:

50% of the *Supplier's* aggregated gain share across completed Work Orders within each year of the contract is subject to payment based upon the performance against the KPI measures described below.

The KPI payments defined in each of the sections below is the applicable percentage of the share that will (or will not) be paid.

Assessment of KPI share is made on an annual basis based on the overall year's performance. Interim payments of share due will be made quarterly, based upon the results within that quarter.

1) Health and Safety Measurement

The *Supplier* will use his own Site Safety Review (SSR) Procedure, assumed to be scored 1 (worst) to 5 (best) as follows:

- 1 = severe sub standard
- 2 = sub standard
- 3 = non conformant
- 4 = standard
- 5 = high

1. **No KPI payment if more than three 'sub-standard scores, that is score '2' reports across all sites within three month measurement period.**
2. **No KPI payment will be made if, in two consecutive reports for a site, an individual item has a 'substandard' rating, that is a score of '2', indicating a failure to implement any improvement to the site's safety and welfare.**
3. **No KPI payment will be made for the whole year, if a Prohibition Notice or Improvement Notice is served on the *Supplier* on any framework site.**

In addition to the *Supplier's* SSRs, anyone visiting sites who notices an event or situation which would warrant a 'Severe Sub Standard' or a 'Sub Standard' rating should, in addition to taking the necessary immediate action, make a record of the occurrence. This will then count in accordance with item 2 above, if this same item was subsequently checked and was not improved upon, or if it had been previously recorded as 'Sub Standard'. (Note: if on any site any element is rated as 'Sub Standard' this should always trigger a re-visit to either audit the whole of the site or the individual item at a later stage in the continuation of the works).

The *Supplier's* SSR's and any isolated 'Severe Sub Standard' or 'Sub Standard' incidents to be registered and recorded centrally.

2) Quality

The measure is for defects prior to Completion where it is anticipated that the *Employer* will be subjected to additional Defined Cost as a result of correcting such defects.

Measurement will be based on the number of Defects Notices issued by the *Project Manager* only. Defects identified by the *Supplier* and actioned via the quality review system will not count towards this measure. This is in order to incentivise the *Supplier* to minimise defects and, where these do occur, to identify and rectify them during the course of the works.

Payment of KPI will be made if 95% or more of projects are defect free at completion.

No KPI payment will be made for less than this 95% figure.

3) Time

The required minimum number of programme revisions for each Work Order will be stated in the Contract Data Part 1 for all projects, as produced by the *Project Manager*.

95% of the programme revisions required by definition of the Contract Data are to be produced for payment of the KPI.

No KPI payment will be made for less than 95 % by number of the required programme revisions.

4) Value

(i) Project out-turn cost

The important matter for the *Employer* is to have timely, complete and accurate cost forecasts during the site stage of the project with no unexpected surprises. This is to ensure effective budget management.

Measurement is of the timeliness and detail of the monthly cost forecasts to an acceptable level of completeness / accuracy, compared to the final forecast cost.

Forecasts are required for: final target cost based on 100% liability to the *Employer*; final defined cost; final value (accounting for gain share) as a minimum.

A forecast based on the existing Target Value will only be acceptable if, at that time, a Contract programme is less than 20% complete (that is 2 weeks in on a ten week programme).

Payment of the KPI will be made if 90% of required forecasts are within 5% of the previous value for the scheme taking into account the change in costs due to compensation events.

No KPI payment will be made if less than 90% of required forecasts are in excess of this value.

No KPI payment will be made if any of the required forecasts are greater than 10% of the previous value for the scheme, taking into account compensation events.

(ii) Payment to Sub-contractors / Suppliers

Payments are required in advance of or at the final date for payment due to Sub-contractors in accordance with the sub contract conditions. Evidence of payment having been made or imminent intent to pay is required.

A random selection of twelve payments will be considered each month as a check of compliance with the above.

KPI payment will only be paid for 100% compliance with this measure.

(iii) PAR Budget Cost versus Target Cost, for construction work (only)

At Project Assessment Report, PAR, stage a budget cost forecast for the construction works is produced by the *Supplier* (with support from the project team as required).

This figure is to be compared with the eventual target cost for the works, discounting all the effects of changes in scope, specification, compensation events etc.

Payment of the KPI will be made for 95% or more of target costs being within + or - 5% of the forecast budgets at PAR stage, all things being equal.

5) Environment and Heritage

(i) Environment

The Environment measure is based on incident reports. An 'incident' is defined as any contravention of the requirements as stipulated in the ECP document incorporated in the Works Information. Any non-compliance would be recorded via the issuing of a Defect Notice by the *Project Manager* and/or via any items raised in environmental audits carried out by the *Supplier*.

KPI payment will be made for one or less incident report per Work Order (subject to compliance with condition below).

No KPI payment will be made for more than three incidents across all Work Orders in any quarter.

No KPI payment will be made for the whole year for this category should an Environment Agency, Natural England, SEPA, Scottish Natural Heritage, Countryside Council for Wales investigation lead to negative action on any site.

(ii) Heritage

On a non-listed structure any damage to the canal hard landscaping and/or hard infrastructure, which is not a defined requirement of the Works Information but which can be repaired to the approval of the Project manager, is classified as an incident.

Incidents will be recorded via the issuing of Defect Notices by the *Project Manager*, or via quality reviews raised by the *Supplier*.

KPI payment will be made for one or less incident report per Work Order (subject to compliance with condition below).

No KPI payment will be made for more than three incidents across all Work Orders in any quarter.

KPI Payment will not be paid for the year for any contravention of a Planning Consent, or if an English Heritage, CADW, Historic Scotland etc. or Planning Authority investigation leads to a negative action on any site.

6) Sustainability

(i) Carbon Footprint

The carbon footprint for the proposed site works (within the site boundary) will be measured by the Contractor at target cost stage for each work package. The footprint will include measures of energy consumption, transport to & from site, fuel emissions on site, fuel emissions from deliveries to & from site, but will exclude waste from the permanent works and travel by public transport. The measure of greenhouse gas emission shall be in CO_{2E} or carbon dioxide equivalent.

Information is obtainable from the DEFRA website and from the Carbon Trust, amongst others.

On completion of the site works the actual emissions shall be calculated and compared with the pre works plan. If a reduction in excess of 15% can be verified then the KPI will be due.

(ii) Site Waste Management Plan (SWMP)

The *Supplier* shall prepare a SWMP during the target cost stage for each work package for the site stage. This shall include quantified items of waste and materials.

On completion of the works the SWMP quantities arising from the actual works will be calculated and compared to the pre works plan. If an overall reduction in excess of 15% can be verified then the KPI will be due.

The sustainability KPI measures may be reviewed and developed in further detail by the *Supplier* and the *Employer* and may be subject to review dependant upon changes in the law which are expected to take effect over the course of the contract.

KPI's measured against the *Employer*

1) Issuing Work Package – KPI Payment = 10% of share

Dates for delivery of Work Information Packages are determined from the Master Programme of Works produced by the *Supplier*. The delivery dates are subject to negotiation of how far in advance of proposed start date delivery of information is required, but typically this is considered as 12 weeks. The baseline or benchmark master programme will be set at the start of each financial year in April.

The master programme of works can obviously be constantly changing throughout the year due to various reasons. There will then be an allowance in the level of attainment required, to take in to account the ongoing minor adjustments to the programme. Adjustments are to be agreed between the *Employer* and the *Supplier* before a work package delivery date can be amended.

If the *Supplier* wishes to bring jobs forward within the master programme, this will be discussed and agreed with the *Employer* for delivery of the Work Package.

Level of attainment required –

80% of briefs to be issued no later than one week past the agreed delivery date.

Failure to meet the level will result in an additional payment of 10% of the KPI related gain share payment due.

2) Employer Requests to add projects to benchmark Master Programme, issuing new Work Package (excluding emergencies) – KPI Payment = 5% of share

This will apply when additional projects are to be introduced into the master programme by the *Employer* after the benchmark programme has been set in early April. For these works it is imperative that sufficient time is allowed to plan for the delivery on site, as there has been no account of them within the *Supplier's* staff resource plan against the master programme.

Quite often these types of projects come with imposing restrictions on when the works must commence. This could be due to canal stoppages, access dates for sites, or necessity to start by a certain date to guarantee financial commitment as in third party funded schemes.

The measure is the compliance with delivery of the works Information within 12 weeks of the required start date or the jointly agreed start date.

Level of attainment required –

80% of briefs to be issued no later than one week past the required delivery date.

Failure to meet the level will result in an additional payment of 5% of the KPI related gain share payment due.

3) Delay to Start/Access date between receipt of Work Package and original start/access date KPI Payment = 5% of share

Delays to schemes by the *Employer* once projects are in the delivery planning process following receipt of the Work Package can have numerous affects on resources and continuity of workload, due to their influence on the Master Programme. Delays can be typically due to failure of planning consents, access agreements, or funding issues, items which are the responsibility of the *Employer* to manage.

It is imperative that such delays are minimised or preferably do not occur at all, and the measure is the number of occurrences and the value of those jobs (the larger the job the greater the consequence of delay or deferral).

Level of attainment required –

Projects of contract value < £100k – maximum of 4 delays / deferrals in year

Projects of contract value > £100k – maximum of 2 delays / deferrals in year

Exceeding the combined number of delays / deferrals within a year (6 number) will result in an additional payment of 5% of the KPI related gain share payment due.

General Commentary on Employer KPI's

Measurement is across each financial year of the Contract.

Interim assessment of KPI share is made quarterly for each quarter's schemes.

Final assessment of KPI share is made on an annual basis based on the overall year's performance.

Benchmark master programme is set in the first week of April for each financial year.