

ARCHITECTURAL SERVICES DEPARTMENT

**MODEL BILLS
OF
QUANTITIES
FOR
BUILDING WORKS**

**The Government of
The Hong Kong Special Administrative Region
Architectural Services Department
Quantity Surveying Branch**

**Queensway Government Offices
66 Queensway
Hong Kong**

2004 EDITION

ARCHITECTURAL SERVICES DEPARTMENT

**MODEL BILLS
OF
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FOR
BUILDING WORKS**

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2004 EDITION

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PREFACE

The Model Bill is a set of standard descriptions, built up from the Architectural Services Department Standard Phraseology, complying with the Third Edition of the Hong Kong Standard Method of Measurement of Building Works and the Architectural Services Department General Specification for Building.

A description is made up of four divisions as follows:

- First Division - This is the main heading and forms the main sub-division within each Trade. This is printed in block capitals and underlined.
- Second Division - This is a sub-heading under the main heading and generally contains specification requirements. This is printed in lower case and underlined.
- Third Division - This third level description is a further component of the previous sub-heading and in turn the previous main heading. It contains common information applicable to subsequent fourth division descriptions. This is printed in lower case but not underlined.
- Fourth Division - This is the last part of a description and contains variables such as sizes, qualifiers etc. The quantity appears against this part of the description. This is printed in lower-case, not underlined and indented from the left hand margin.

Where several fourth division descriptions occur together, they all relate to the previous third division description which in turn relates to the previous sub-heading (second division), which in turn relates to the previous main heading (first division). This relationship is carried forward from page to page even though only main headings are repeated on each page.

Abbreviations for units of measurement used in this document are as follows:

cubic metres	-	m ³
square metres	-	m ²
linear metres	-	m
kilograms	-	kg
number	-	nr

Bill Nr. MODBQ.1

DEMOLITIONS AND ALTERATIONS

DEMOLITIONS

Demolishing or taking down to
ground level

All structures

A on the site ; shoring and
scaffolding (XW)

item

Individual structures

B * x * x * high to parapet ; *
storeys ; reinforced concrete
framed building ; as
delineated on drawing nr. * ;
shoring and scaffolding (XW)

item

C * x * x * high to ridge ; *
storeys ; steel framed
building ; located at * ;
materials remaining the
property of Employer ; setting
aside and storing materials on
site ; protecting ; shoring
and scaffolding (XW)

item

ALTERATIONS

Alteration works to existing first
floor office areas ; as
delineated on drawing nr. *

Cutting openings through
reinforced concrete walls * thick
; quoining up jambs ; extending
finishings and making good ;
shoring and scaffolding

D * wide x * high (XW)

item

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.1/1

To Collection \$

DEMOLITIONS AND ALTERATIONS

ALTERATIONS (Cont'd)

Cutting openings through brick walls * thick ; cutting and pinning * x * precast concrete grade 20/20 lintel over reinforced with two 16 diameter mild steel bars ; quoining up jambs ; extending finishings and making good ; shoring and scaffolding

A * wide x * high (XW)

item

Blocking up openings through walls ; reinforced concrete grade */* * thick ; formwork ; cutting, tothing and bonding to existing each alternate course; extra material ; extending finishings and making good

B * wide x * high (XW)

item

Pulling down brick walls ; approximately *m x *m ; shoring and scaffolding

C one brick thick (XW)

item

Taking down fittings and fixtures ; setting aside materials for re-use ; protecting ; extending finishings and making good

D * x * x * hardwood doors ; * nr. (XW)

item

E * x * x * hardwood cupboards ; * nr. (XW)

item

F * x * vitreous china wash hand basins ; * nr. (XW)

item

G vitreous china w.c. suites ; * nr. (XW)

item

Hacking off finishings ; preparing background to receive new finishings ; approximately * m2

H plastering ; * thick overall ; walls and columns (XW)

item

MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.1/2

To C ollection \$

DEMOLITIONS AND ALTERATIONS

ALTERATIONS (Cont'd)

A	plastering ; * thick overall ; ceilings and beams (XW)	item	
B	glazed wall tiling and backing ; * thick overall ; walls and columns (XW)	item	
	Stripping out pipework ; located at * ; plugging ends of undisturbed pipes		
C	* installation (XW)	item	
	Repairing, adapting and refixing existing fittings and fixtures		
D	* x * x * hardwood doors ; hanging ; * nr. (XW)	item	
E	* x * x * hardwood cupboards ; plugging ; * nr. (XW)	item	
F	* x * vitreous china wash hand basins ; cutting and pinning brackets ; connections to service pipes ; * nr. (XW)	item	
G	vitreous china w.c. suites ; plugging ; connections to service pipes ; * nr. (XW)	item	

DEMOLITIONS AND ALTERATIONS

REMOVAL OF ASBESTOS CONTAINING MATERIALS

Design, provision, installation, inspection, testing, supervision, monitoring, sampling, maintenance, cleaning up and subsequent removal of the special precautionary measures ; as specified in Appendix * for the controlled removal and disposal of asbestos-containing materials ; as identified in Drawing No. * ; by a Contractor on the Approved List of Specialist Contractors for Asbestos Abatement Works

Decontamination facilities including three-chamber air lock, negative pressure ventilation and air filtration system, air monitoring and sampling and complete sealing of floor, wall and ceiling

A * /F (XW) item

Temporary barriers and hoardings completed with warning signs

B * /F (XW) item

Waste disposal facilities including temporary containment barriers

C * /F (XW) item

Respirators and protective clothing

D * /F (XW) item

Removal and disposal of asbestos containing material ; as identified in Drawing No. *

Corrugated cement sheets

E * /F ; * m2 (XW) item

Hollow cement pipes

F * /F ; * m (XW) item

MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.1/4

To Collection \$

DEMOLITIONS AND ALTERATIONS

SUNDRIES

Temporary screens

Dustproof screens ; temporary doors size * x * ; * nr.

A erecting ; maintaining ; altering and adapting as necessary during the Contract ; removing on completion ; making good all work disturbed (XW)

m2

B * x * ; erecting ; maintaining ; altering and adapting as necessary during the Contract ; removing on completion ; making good all work disturbed (XW)

nr

Timber shoring

Raking shores ; to walls or columns of existing brick structure ; as delineated on drawing nr. * ; propping against edge of suspended floors at first, second and third floor levels

C erecting ; maintaining ; cutting holes and pockets in the structure ; removing on completion ; making good all work disturbed (XW)

m3

Flying shores ; to walls or columns of existing brick structure ; as delineated on drawing nr. * ; propping against edge of suspended floors at fourth, fifth and sixth floor levels

D erecting ; maintaining ; cutting holes and pockets in the structure ; removing on completion ; making good all work disturbed (XW)

m3

DEMOLITIONS AND ALTERATIONS

CREDIT VALUE

Allowing credit

For the value of materials

A arising from demolitions (XW)

item

DEMOLITIONS AND ALTERATIONS

C O L L E C T I O N

Page No. MODBQ.1/1	
Page No. MODBQ.1/2	
Page No. MODBQ.1/3	
Page No. MODBQ.1/4	
Page No. MODBQ.1/5	
Page No. MODBQ.1/6	
Bill Nr. MODBQ.1 - DEMOLITIONS AND ALTERATIONS		
To Summary		\$

Bill Nr. MODBQ.2
PILING AND CAISSONS

STEEL SHEET PILING

Plant

Providing and assembling on site ;
subsequently dismantling and
removing

A	piling equipment	(PI)	item		
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Supplying, handling, transporting
and pitching sheet piles

Units * x * overall ; * thick
steel to BS 4360 grade * ;
Frodingham Section 1B

B	design length * m	(PI)	m2		
---	-------------------	------	----	--	--

Extra over units * x * overall ;
Frodingham Section 1B

C	for corner piles ; * degree	(PI)	m		
---	-----------------------------	------	---	--	--

D	for junction piles ; * degree	(PI)	m		
---	-------------------------------	------	---	--	--

E	for non standard make up piles with interlocked width of *	(PI)	m		
---	---	------	---	--	--

Units * x * overall ; * thick mild
steel to BS 4360 grade 43A ;
section modulus * cm3/m

F	design length * m	(PI)	m2		
---	-------------------	------	----	--	--

Extra over units * x * overall ;
section modulus * cm3/m

G	for corner piles ; * degree	(PI)	m		
---	-----------------------------	------	---	--	--

H	for junction piles ; * degree	(PI)	m		
---	-------------------------------	------	---	--	--

J	for non standard make up piles with interlocked width of *	(PI)	m		
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MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.2/1

	To Collection \$	
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PILING AND CAISSONS

STEEL SHEET PILING (Cont'd)

Driving sheet piles

Units * x * overall ; Frodingham
Section 1B

A vertical (PI) m2

B on rake (PI) m2

Extra over units * x * overall ;
Frodingham Section 1B

C for corner piles ; * degree ;
vertical (PI) m

D for corner piles ; * degree ;
on rake (PI) m

E for junction piles ; * degree ;
vertical (PI) m

F for junction piles ; * degree ;
on rake (PI) m

G for non standard make up piles
with interlocked width of * ;
vertical (PI) m

H for non standard make up piles
with interlocked width of * ;
on rake (PI) m

Units * x * overall ; section
modulus * cm3/m

J vertical (PI) m2

K on rake (PI) m2

Extra over units * x * overall ;
section modulus * cm3/m

L for corner piles ; * degree ;
vertical (PI) m

M for corner piles ; * degree ;
on rake (PI) m

N for junction piles ; * degree ;
vertical (PI) m

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.2/2

To Collection \$

PILING AND CAISSONS

STEEL SHEET PILING (Cont'd)

A	for junction piles ; * degree ; on rake (PI)		m	
B	for non standard make up piles with interlocked width of * ; vertical (PI)		m	
C	for non standard make up piles with interlocked width of * ; on rake (PI)		m	

Underground obstructions

	Excavating, breaking up and removing			
D	underground obstructions ; backfilling ; removing surplus material from site (PI)		item	

Withdrawing sheet piles

	Units * x * overall ; Frodingham Section 1B			
E	vertical (PI)		m2	
F	on rake (PI)		m2	
	Units * x * overall ; section modulus * cm3/m			
G	vertical (PI)		m2	
H	on rake (PI)		m2	

Sundries

	Cutting or burning through sheet piling			
J	units * x * overall ; Frodingham 1B Section 1B (PI)		m	
K	units * x * overall ; section modulus * cm3/m (PI)		m	

PILING AND CAISSONS

STEEL SHEET PILING (Cont'd)

Cutting or burning holes through sheet piling

A	units * x * overall ; Frodingham Section 1B ; * diameter	(PI)	nr		
---	--	------	----	--	--

B	units * x * overall ; section modulus * cm ³ /m ; * diameter	(PI)	nr		
---	--	------	----	--	--

Temporary strutting and shoring

Providing, erecting, maintaining, altering and adapting as necessary ; dismantling ; removing from site

C	piling face *m long x *m high	(PI)	item		
---	-------------------------------	------	------	--	--

Temporary strutting and shoring ; steel to BS 4360 grade * ; welded fabrication ; altering and adapting as necessary ; dismantling ; removing from site

Walings and strutting

D	* x * x * kg universal columns (In Nr. 0)	(PI)	kg		
---	--	------	----	--	--

E	* x * x * kg universal columns ; 9.00 - 10.50m long (In Nr. 0)	(PI)	kg		
---	---	------	----	--	--

Connections, caps and bases

F	* x * x * kg angles ; in cleats	(PI)	kg		
---	---------------------------------	------	----	--	--

G	* thick plates ; in packing pieces	(PI)	kg		
---	------------------------------------	------	----	--	--

PILING AND CAISSONS

STEEL SHEET PILING (Cont'd)

Temporary pedestals and anchor blocks for temporary strutting and shoring ; breaking up after use ; removing from site ; making good the permanent structure

Reinforced concrete ; grade */*

A	pedestal (In Nr. 0)	(PI)	m3	
	Reinforcement ; mild steel bars ; links, stirrups, binders and special spacers ; PROVISIONAL			
B	* diameter	(PI)	kg	
	Reinforcement ; high yield steel bars ; general reinforcement ; PROVISIONAL			
C	* diameter	(PI)	kg	
	Sawn formwork			
D	vertical surfaces of pedestal	(PI)	m2	
	<u>Credit value</u>			
	Allowing for the credit value of materials			
E	arising from offcuts of Frodingham Section 1B sheet piles ; becoming Contractor's property ; removing from site	(PI)	m2	
F	arising from withdrawn units of Frodingham Section 1B sheet piles ; becoming Contractor's property ; removing from site	(PI)	m2	

PILING AND CAISSONS

PRECAST CONCRETE PILES

Plant

Providing and assembling on site ;
subsequently dismantling and
removing

A	piling equipment	(PI)	item	
---	------------------	------	------	--

Supplying piles ; sulphate
resisting ; grade */*

Piles

B	* diameter (In Nr. 0)	(PI)	m	
---	-----------------------	------	---	--

C	heads ; weighing * kg ; to suit * diameter piles	(PI)	nr	
---	---	------	----	--

D	shoes ; weighing * kg ; to suit * diameter piles	(PI)	nr	
---	---	------	----	--

Trial piles

E	* diameter	(PI)	m	
---	------------	------	---	--

F	heads ; weighing * kg ; to suit * diameter piles	(PI)	nr	
---	---	------	----	--

G	shoes ; weighing * kg ; to suit * diameter piles	(PI)	nr	
---	---	------	----	--

Reinforcement

Mild steel bars ; links, stirrups,
binders and special spacers ;
PROVISIONAL

H	* diameter	(PI)	kg	
---	------------	------	----	--

High yield steel bars ; general
reinforcement ; PROVISIONAL

J	* diameter	(PI)	kg	
---	------------	------	----	--

High yield steel bars ; helical
reinforcement ; PROVISIONAL

K	* diameter	(PI)	kg	
---	------------	------	----	--

PILING AND CAISSONS

PRECAST CONCRETE PILES (Cont'd)

Handling, transporting and
pitching piles

Piles ; * diameter

A	* - *m long	(PI)		nr	
---	-------------	------	--	----	--

Trial piles ; * diameter

B	* - *m long	(PI)		nr	
---	-------------	------	--	----	--

Driving piles

Piles

C	* diameter ; vertical	(PI)		m	
---	-----------------------	------	--	---	--

D	* diameter ; on rake	(PI)		m	
---	----------------------	------	--	---	--

Trial piles

E	* diameter ; vertical	(PI)		m	
---	-----------------------	------	--	---	--

F	* diameter ; on rake	(PI)		m	
---	----------------------	------	--	---	--

Underground obstructions

Excavating, breaking up and
removing

G	underground obstructions ; backfilling ; removing surplus material from site	(PI)		item	
---	--	------	--	------	--

Lengthening piles in position

Piles

H	* diameter ; *m extra length	(PI)		nr	
---	------------------------------	------	--	----	--

J	connections between * diameter piles	(PI)		nr	
---	---	------	--	----	--

File head treatments

Cutting off heads of piles ;
straightening or bending and
cleaning projecting reinforcement
; removing debris from site

K	* diameter	(PI)		nr	
---	------------	------	--	----	--

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.2/7

	To C	ollection	\$	
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PILING AND CAISSONS

PRECAST CONCRETE PILES (Cont'd)

Cement grouting

A	exposed dowel bars of each pile	(PI)	nr	
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Testing

Compaction tests to determine

B	the maximum dry density and optimum moisture content in accordance with GEO Report No. 36 test 4.3.3A, 4.3.3B, 4.3.4A or 4.3.4B ; PROVISIONAL	(PI)	nr	
---	---	------	----	--

C	the in-situ field density and moisture content in accordance with GEO Report No. 36 test 9.2.1 or 9.2.2 ; PROVISIONAL	(PI)	nr	
---	---	------	----	--

Loading tests

D	initial	(PI)	nr	
---	---------	------	----	--

E	subsequent ; PROVISIONAL	(PI)	nr	
---	--------------------------	------	----	--

F	subsequent ; providing new loading platform and kentledge ; PROVISIONAL	(PI)	nr	
---	---	------	----	--

Non-destructive integrity test of piles ; preparing ; executed by an approved Testing Firm

G	dynamic test ; PROVISIONAL	(PI)	nr	
---	----------------------------	------	----	--

CAST IN-SITU CONCRETE PILES

Plant

Providing and assembling on site ; subsequently dismantling and removing

H	piling equipment	(PI)	item	
---	------------------	------	------	--

PILING AND CAISSONS

CAST IN-SITU CONCRETE PILES
(Cont'd)

Supplying, handling, transporting,
pitching, driving and withdrawing
steel casings

Pile casings ; vertical

A	* diameter internally ; * wall thickness ; removing surplus excavated material from site (In Nr. 0)	(PI)	m	
---	--	------	---	--

B	shoes ; weighing * kg ; to suit * diameter casings	(PI)	nr	
---	---	------	----	--

Pile casings ; on rake

C	* diameter internally ; * wall thickness ; removing surplus excavated material from site (In Nr. 0)	(PI)	m	
---	--	------	---	--

D	shoes ; weighing * kg ; to suit * diameter casings	(PI)	nr	
---	---	------	----	--

Trial pile casings ; vertical

E	* diameter internally ; * wall thickness ; removing surplus excavated material from site (In Nr. 0)	(PI)	m	
---	--	------	---	--

F	shoes ; weighing * kg ; to suit * diameter casings	(PI)	nr	
---	---	------	----	--

Underground obstructions

Excavating, breaking up and removing

G	underground obstructions ; backfilling ; removing surplus material from site	(PI)	item	
---	---	------	------	--

Reinforced concrete ; grade */*

Piles

H	* diameter (In Nr. 0)	(PI)	m	
---	-----------------------	------	---	--

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.2/9

To Collection \$

PILING AND CAISSONS

CAST IN-SITU CONCRETE PILES
(Cont'd)

Trial piles

A	* diameter (In Nr. 0)	(PI)	m	
---	-----------------------	------	---	--

Extra over * diameter piles

B	for enlarged bases ; * diameter	(PI)	nr	
---	---------------------------------	------	----	--

Extra over * diameter trial piles

C	for enlarged bases ; * diameter	(PI)	nr	
---	---------------------------------	------	----	--

Reinforcement

Mild steel bars ; links, stirrups, binders and special spacers ; PROVISIONAL

D	* diameter	(PI)	kg	
---	------------	------	----	--

High yield steel bars ; general reinforcement ; PROVISIONAL

E	* diameter	(PI)	kg	
---	------------	------	----	--

High yield steel bars ; helical reinforcement ; PROVISIONAL

F	* diameter	(PI)	kg	
---	------------	------	----	--

Pile head treatments

Cutting off heads of piles ; straightening or bending and cleaning projecting reinforcement ; removing debris from site

G	* diameter	(PI)	nr	
---	------------	------	----	--

Cement grouting

H	exposed dowel bars of each pile	(PI)	nr	
---	---------------------------------	------	----	--

PILING AND CAISSONS

CAST IN-SITU CONCRETE PILES
(Cont'd)

Testing

Compaction tests to determine

A	the maximum dry density and optimum moisture content in accordance with GEO Report No. 36 test 4.3.3A, 4.3.3B, 4.3.4A or 4.3.4B ; PROVISIONAL (PI)	nr	
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B	the in-situ field density and moisture content in accordance with GEO Report No. 36 test 9.2.1 or 9.2.2 ; PROVISIONAL (PI)	nr	
---	--	----	--

Loading tests

C	initial (PI)	nr	
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D	subsequent ; PROVISIONAL (PI)	nr	
---	-------------------------------	----	--

E	subsequent ; providing new loading platform and kentledge ; PROVISIONAL (PI)	nr	
---	--	----	--

Non-destructive integrity test of piles ; preparing ; executed by an approved Testing Firm

F	vibration test ; PROVISIONAL (PI)	nr	
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BORED PILES

Plant

Providing and assembling on site ; subsequently dismantling and removing

G	piling equipment (PI)	item	
---	-----------------------	------	--

Boring

Holes

H	for piles ; removing surplus excavated material from site (In Nr. 0) (PI)	m	
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MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.2/11

To Collection \$

PILING AND CAISSONS

BORED PILES (Cont'd)

A	for trial piles ; removing surplus excavated material from site (In Nr. 0)	(PI)	m	
	Extra over pile holes			
B	for enlarged bases ; * diameter	(PI)	nr	
	Extra over trial pile holes			
C	for enlarged bases ; * diameter	(PI)	nr	
	<u>Underground obstructions</u>			
	Excavating, breaking up and removing			
D	underground obstructions ; backfilling ; removing surplus material from site	(PI)	item	
	<u>Reinforced concrete ; sulphate resisting ; grade */*</u>			
	Filling to pile holes			
E	* diameter (In Nr. 0)	(PI)	m	
	Filling to trial pile holes			
F	* diameter (In Nr. 0)	(PI)	m	
	Extra over filling to pile holes			
G	for enlarged bases ; * diameter	(PI)	nr	
	Extra over filling to trial pile holes			
H	for enlarged bases ; * diameter	(PI)	nr	
	<u>Reinforcement</u>			
	Mild steel bars ; links, stirrups, binders and special spacers ; PROVISIONAL			
J	* diameter	(PI)	kg	
	MODEL BILL OF DESCRIPTIONS			
	ASD STANDARD BILLS MODBQ.2/12		To C	ollection \$

PILING AND CAISSONS

BORED PILES (Cont'd)

	High yield steel bars ; general reinforcement ; PROVISIONAL			
A	* diameter (PI)	kg		
	High yield steel bars ; helical reinforcement ; PROVISIONAL			
B	* diameter (PI)	kg		
	<u>File head treatments</u>			
	Straightening or bending and cleaning projecting reinforcement			
C	* diameter pile (PI)	nr		
	Cement grouting			
D	exposed dowel bars of each pile (PI)	nr		
	<u>Testing</u>			
	Compaction tests to determine			
E	the maximum dry density and optimum moisture content in accordance with GEO Report No. 36 test 4.3.3A, 4.3.3B, 4.3.4A or 4.3.4B ; PROVISIONAL (PI)	nr		
F	the in-situ field density and moisture content in accordance with GEO Report No. 36 test 9.2.1 or 9.2.2 ; PROVISIONAL (PI)	nr		
	Loading tests			
G	initial (PI)	nr		
H	subsequent ; PROVISIONAL (PI)	nr		
J	subsequent ; providing new loading platform and kentledge ; PROVISIONAL (PI)	nr		

PILING AND CAISSONS

STEEL PILES (Cont'd)

File head treatments

Cutting off heads of piles ;
removing debris from site

A	* x *	(PI)	nr	
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Testing

Compaction tests to determine

B	the maximum dry density and optimum moisture content in accordance with GEO Report No. 36 test 4.3.3A, 4.3.3B, 4.3.4A or 4.3.4B ; PROVISIONAL	(PI)	nr	
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C	the in-situ field density and moisture content in accordance with GEO Report No. 36 test 9.2.1 or 9.2.2 ; PROVISIONAL	(PI)	nr	
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Loading tests

D	initial	(PI)	nr	
---	---------	------	----	--

E	subsequent ; PROVISIONAL	(PI)	nr	
---	--------------------------	------	----	--

F	subsequent ; providing new loading platform and kentledge ; PROVISIONAL	(PI)	nr	
---	---	------	----	--

CAISSONS

Plant

Providing and assembling on site ;
subsequently dismantling and removing

G	piling equipment	(PI)	item	
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Setting up

Caissons

H	* effective design diameter	(PI)	nr	
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MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.2/15

	To C	ollection	\$	
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PILING AND CAISSONS

CAISSONS (Cont'd)

Excavating

Shafts for caissons ; commencing at natural ground level ; removing surplus excavated material from site

A	* effective design diameter ; not exceeding 1.50m deep (PI)		m	
B	* effective design diameter ; * - *m deep (PI)		m	
Extra over shaft excavation at any depth				
C	for breaking up rock ; removing from site ; PROVISIONAL (PI)		m3	
D	for excavating enlarged bases ; * diameter (PI)		nr	

Contractor designed linings ; submitting design for Architect's approval

Linings

E	* minimum internal diameter (PI)		m	
F	to enlarged bases ; * minimum internal diameter (PI)		nr	

Breaking up linings above finished casting level of concrete core ; associated excavation ; removing material from site

G	* minimum internal diameter (In Nr. 0) (PI)		m	
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Reinforced concrete ; incorporating chemical retarder ; grade */*

Cores

H	* minimum internal diameter of lining (PI)		m	
---	--	--	---	--

PILING AND CAISSONS

CAISSONS (Cont'd)

A	<p>the in-situ field density and moisture content in accordance with BS 1377 test nr. 15A or 15B (the sand replacement method) ; PROVISIONAL (PI)</p>	nr	
	<p>Providing and assembling ; subsequently dismantling and removing from site</p>		
B	<p>drilling and coring equipment (PI)</p>	item	
	<p>Penetration drill testing bedrock at shaft bottoms ; commencing at a depth not exceeding 15.00m below commencing level of caisson excavation</p>		
C	<p>* size pneumatic rock drill ; subsequently pressure grouting with cement and sand (1:3) (In Nr. 0) (PI)</p>	m	
	<p>Core testing concrete and a further 600 into bedrock below ; not exceeding 15.00m deep</p>		
D	<p>* diameter core ; subsequently pressure grouting with cement and sand (1:3) (In Nr. 0) (PI)</p>	m	
	<p><u>CAISSON INFILL PANELS</u></p> <p><u>Excavating</u></p> <p>Into banks ; between and behind * diameter caissons at * - * m centers</p>		
E	<p>generally (PI)</p>	m3	
	<p><u>Extra over excavation and disposal at any depth for</u></p> <p>Breaking up and removing</p>		
F	<p>concrete (PI)</p>	m3	
	<p>MODEL BILL OF DESCRIPTIONS ASD STANDARD BILLS MODBQ.2/18</p>		
		To C	ollection \$

PILING AND CAISSONS

CAISSON INFILL PANELS (Cont'd)

Sundries

Applying two coats of bituminous paint

A	on concrete surfaces	(PI)		m2	
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Horizontal land drains

Providing and assembling plant on site ; subsequently dismantling and removing

B	drilling equipment for boring horizontal drains	(PI)		item	
---	---	------	--	------	--

Boring holes in ground

C	for * diameter drain pipes ; removing surplus material from site (In Nr. 0)	(PI)		m	
---	---	------	--	---	--

Boring holes in rock

D	for * diameter drain pipes ; removing surplus material from site (In Nr. 0)	(PI)		m	
---	---	------	--	---	--

Perforated plastic pipes ; open joints

E	* internal diameter ; inserting into bore hole through face of caisson wall	(PI)		m	
---	---	------	--	---	--

Perforated plastic pipes ; open joints ; wrapping with "Terram 700" synthetic filter fabric

F	* internal diameter ; inserting into bore hole through face of caisson wall	(PI)		m	
---	---	------	--	---	--

ROCK ANCHORS

Plant

Providing and assembling on site ; subsequently dismantling and removing

G	drilling equipment	(PI)		item	
---	--------------------	------	--	------	--

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.2/20

	To C	ollection	\$	
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PILING AND CAISSONS

ROCK ANCHORS (Cont'd)

A	tendon platform	(PI)	item	
	<u>Setting up</u>			
	Anchors			
B	type *	(PI)	nr	
	Trial anchors			
C	type *	(PI)	nr	
	<u>Supplying ; drilling ground and installing rock anchors as drawing nr. *</u>			
	Free length of anchors ; * degrees from horizontal			
D	type * ; *m total length	(PI)	nr	
	Free length of trial anchors ; * degrees from horizontal			
E	type * ; *m total length	(PI)	nr	
	Fixed length of anchors ; * degrees from horizontal			
F	type * ; *m total length	(PI)	nr	
	Fixed length of trial anchors ; * degrees from horizontal			
G	type * ; *m total length	(PI)	nr	
	<u>Supplying and installing anchor heads as drawing nr. *</u>			
	Anchor heads for			
H	type * anchors	(PI)	nr	
J	type * trial anchors	(PI)	nr	
	<u>Destressing anchors</u>			
	Trial anchors			
K	type *	(PI)	nr	
	MODEL BILL OF DESCRIPTIONS			
	ASD STANDARD BILLS			
	MODBQ.2/21			
			To C	ollection \$

PILING AND CAISSONS

ROCK ANCHORS (Cont'd)

Testing

Water testing

A	fixed lengths of anchor holes	(PI)	nr	
---	-------------------------------	------	----	--

B	pressure grouting *m lengths of anchor holes after water test failure ; re-drilling holes	(PI)	nr	
---	---	------	----	--

Load testing

C	simple stressing tests on type * anchors ; * times design load	(PI)	nr	
---	--	------	----	--

D	simple stressing tests on type * trial anchors ; * times design load	(PI)	nr	
---	--	------	----	--

E	comprehensive stressing tests on type * anchors ; * times design load	(PI)	nr	
---	---	------	----	--

F	comprehensive stressing tests on type * trial anchors ; * times design load	(PI)	nr	
---	---	------	----	--

Blast testing

G	on trial anchors ; explosion of test charges in earthworks	(PI)	nr	
---	--	------	----	--

H	on trial anchors ; explosion of test charges in caissons	(PI)	nr	
---	--	------	----	--

Sample testing

J	allowing for testing one sample of each material used in the rock anchor system	(PI)	item	
---	---	------	------	--

Load monitoring

Lift off tests ; initial ; * hours after lock off

K	to type * anchors	(PI)	nr	
---	-------------------	------	----	--

L	to type * trial anchors	(PI)	nr	
---	-------------------------	------	----	--

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.2/22

To Collection \$

PILING AND CAISSONS

ROCK ANCHORS (Cont'd)

A	Lift off tests ; subsequent to type * anchors	(PI)	nr
B	Lift off tests ; subsequent ; executing in Maintenance Period to type * anchors	(PI)	nr
C	Load cells ; supplying ; installing to type * anchors	(PI)	nr
D	to type * trial anchors	(PI)	nr

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Bill Nr. MODBQ.2 - PILING AND CAISSONS

To Summary \$

Bill Nr. MODBQ.3
DIAPHRAGM WALLING

DIAPHRAGM WALLS

The following in diaphragm walls ;
*m long x *m deep overall ; as
drawing nr. * ; adjacent to
existing structure

Plant

A	standing time ordered for plant and equipment ; PROVISIONAL	(FN)	days		
B	Excavating trenches * wide for diaphragm walls ; commencing at reduced level not exceeding 5.00m deep	(FN)	m3		
C	* - *m deep	(FN)	m3		
D	Extra over excavation and disposal at any depth for breaking up and removing reinforced concrete	(FN)	m3		
E	surface concrete * thick ; with hardcore under	(FN)	m2		
F	Surplus excavated material removing from site	(FN)	m3		
G	Concrete ; grade */* temporary guide walls ; * wide x * deep ; excavating and disposal ; formwork ; breaking up and removing on completion of diaphragm walls	(FN)	m		
H	Reinforced concrete ; grade */* ; placing by tremie pipe diaphragm walls ; * thick	(FN)	m3		

MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.3/1

To Collection \$

DIAPHRAGM WALLING

DIAPHRAGM WALLS (Cont'd)

	Mild steel bars ; links, stirrups, binders and special spacers ; PROVISIONAL	(FN)	kg
A	* diameter		
	High yield steel bars ; general reinforcement ; PROVISIONAL	(FN)	kg
B	* diameter		
	Sawn formwork ; vertical surfaces diaphragm walls	(FN)	m2
C	diaphragm walls		
	Trimming and cleaning faces of diaphragm walls * finish	(FN)	m2
D			
	Preparing tops of walls ; to receive * ; straightening or bending and cleaning projecting reinforcement * thick	(FN)	m
E			
	Waterproof joints in walls ; as drawing nr. * ; type *	(FN)	m
F			

DIAPHRAGM WALLING

C O L L E C T I O N

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Bill Nr. MODBQ.3 - DIAPHRAGM WALLING

To Summary \$

Bill Nr. MODBQ.4
EXCAVATOR

NOTE :

A Rates in this bill for *hardcore using recycled coarse aggregates / and concrete or reinforced concrete with recycled coarse aggregates shall be deemed to include all additional costs arising from substituting recycled coarse aggregates with natural coarse aggregates when so directed by the Architect or in case of shortage in supply of recycled coarse aggregates from the Recycling Plant at Tuen Mun Area 38 or any other unforeseeable problems accepted and approved in writing by the Architect.

(Guidance notes : 1. These items are to be used only when recycled coarse aggregates are specified by PSE.

2. * Delete as appropriate)

SITE PREPARATION

Site clearance

Clearing the site

B removing off site or burning all rubbish, tall grass, shrubs, bushes and the like and trees not exceeding 600 girth, including grubbing up roots (FN)

item

Cutting down trees

Trees

C * to * girth ; providing and maintaining temporary identity labels or markings ; grubbing up roots and removing off site or burning (FN)

nr

MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.4/1

To Collection \$

EXCAVATOR

SITE PREPARATION (Cont'd)

Preserving turf

Lifting turf

A * thick ; stacking on site ;
for future use (FN)

m2

Preserving vegetable soil

Excavating over site

B average * deep ; depositing in
separate spoil heaps ; on site (FN)

m2

Preserving trees

Trees

C * to * girth ; provide and
maintain temporary identity
labels or markings ; including
all temporary works (FN)

nr

EXCAVATION

Excavating

Over site to reduce levels

D over 200 average depth (FN)

m3

E average * deep (FN)

m2

Into banks

F generally (FN)

m3

Basements and similar ; commencing
at site formation level

G not exceeding 1.50m deep (FN)

m3

H 1.50 - 3.00m deep (FN)

m3

J 3.00 - 4.50m deep (FN)

m3

Surface trenches ; commencing at
site formation level

K not exceeding 1.50m deep (FN)

m3

MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.4/2

To C ollection \$

EXCAVATOR

EXCAVATION (Cont'd)

A	1.50 - 3.00m deep	(FN)	m3
B	3.00 - 4.50m deep	(FN)	m3
Pits for pile caps ; commencing at site formation level			
C	not exceeding 1.50m deep	(FN)	m3
D	1.50 - 3.00m deep	(FN)	m3
E	3.00 - 4.50m deep	(FN)	m3
Trenches for service pipes ; commencing at site formation level ; not exceeding 1.50m deep			
F	0.75m average depth	(FN)	m
Trenches for cables ; commencing at site formation level ; not exceeding 1.50m deep			
G	1.00m average depth	(FN)	m
Post holes ; commencing at site formation level			
H	not exceeding 0.30m3	(FN)	nr
<u>Extra over excavation and disposal at any depth for</u>			
Breaking up and removing			
J	brickwork	(FN)	m3
K	concrete	(FN)	m3
L	reinforced concrete	(FN)	m3
M	concrete pavings * thick	(FN)	m2
N	concrete pavings * thick ; with hardcore under	(FN)	m2

EXCAVATOR

FILLING AND DISPOSAL OF EXCAVATED MATERIAL

Filling

Excavated material

A	backfilling ; depositing in 250 layers ; compacting (FN)	m3
B	filling in making up levels ; depositing in 250 layers ; compacting by vibratory roller (FN)	m3
C	filling in forming embankments or terraces ; depositing in 250 layers ; compacting by vibratory roller (FN)	m3
D	filling in making up levels ; average 150 thick ; compacting by vibratory roller (FN)	m2

Disposal

Surplus excavated material

E	removing from site (FN)	m3
F	depositing on site in permanent spoil heaps ; average *m from excavation (FN)	m3

TREATMENT OF SURFACES

Surface treatments

Sides of cuttings

G	trimming and compacting to slope (FN)	m2
---	---------------------------------------	----

Sides of embankments

H	trimming and compacting to slope (FN)	m2
---	---------------------------------------	----

Faces of rock

J	trimming to fair exposed face ; blinding with fine graded material (FN)	m2
---	---	----

MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.4/4

To Collection \$

TEMPORARY SHORING AND SUPPORTS

Allowing for temporary shoring and supports

To vertical face of excavation into banks ; exceeding 1.50m high ; for construction of retaining wall and similar

A minimum face height *m ;
 maximum face height *m ;
 approximate overall length *m
 (FN)

item

CHUNAM SURFACING

Chunam surfacing ; cement/hydrated lime/inorganic soil (1:3:20) ; 50 diameter x 225 long UPVC pipes as weepholes ; at 1.50m centres horizontally ; at 1.50m staggered centres vertically

Generally

B to slopes (FN)

m2

C to slopes ; exceeding 1 in 7 (FN)

m2

HARDCORE AND THE LIKE

Hardcore

Filling

D in making up levels ; depositing and compacting in layers (FN)

m3

E in making up levels average 150 thick ; blinding with fine graded material (FN)

m2

Surfaces of hardcore

F blinding with fine graded material (FN)

m2

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.4/5

To Collection \$

EXCAVATOR

HARDCORE AND THE LIKE (Cont'd)

Hardcore ; recycled coarse aggregates

Filling

A in beds * thick ; blinding with fine graded material (FN)

m2

Graded filter material

Backfilling

B behind retaining walls ; depositing and compacting in layers (FN)

m3

SUNDRIES

Pile head treatments

Cleaning heads of piles ; straightening or bending and cleaning projecting reinforcement

C concrete piles ; * diameter (FN)

nr

Cutting off heads of piles ; straightening or bending and cleaning projecting reinforcement ; removing debris from site

D concrete piles ; * diameter (FN)

nr

E steel "H" piles ; * x * (FN)

nr

Compaction tests

Tests to determine

F the maximum dry density and optimum moisture content in accordance with GEO Report No. 36 test 4.3.3A, 4.3.3B, 4.3.4A or 4.3.4B ; PROVISIONAL (FN)

nr

G the in-situ field density and moisture content in accordance with GEO Report No. 36 test 9.2.1 or 9.2.2 ; PROVISIONAL (FN)

nr

SUNDRIES (Cont'd)

Record survey

Oversite topography survey

A by an approved independent
surveyor ; before any work
carried out under the contract
; including preparing record
drawings (FN)

item

EXCAVATOR

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Bill Nr. MODBQ.4 - EXCAVATOR

To Summary \$

Bill Nr. MODBQ.5
UNDERPINNING

UNDERPINNING

Underpinning ; reinforced concrete walls ; to East elevation of Transformer room ; * long ; *m deep below base of existing foundation ; maximum *m lengths in one operation

Temporary supports

A	to work to be underpinned (FN)	item	
	Excavating preliminary trenches ; commencing at natural ground level		
B	not exceeding 1.50m deep (FN)	m3	
C	1.50 - 3.00m deep (FN)	m3	
	Excavating trenches below level of base of existing foundation ; commencing at * below natural ground level		
D	not exceeding 1.50m deep (FN)	m3	
E	1.50 - 3.00m deep (FN)	m3	
	Extra over excavation and disposal for breaking up and removing		
F	concrete (FN)	m3	
G	surface concrete * thick ; with hardcore under (FN)	m2	
	Excavated material		
H	backfilling ; depositing in * layers ; compacting (FN)	m3	
	Surplus excavated material		
J	removing from site (FN)	m3	

MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.5/1

To Collection \$

UNDERPINNING

UNDERPINNING (Cont'd)

	Concrete ; grade */*			
A	blinding under foundations ; 50 thick (FN)	m3		
	Concrete ; no-fines ; grade */* ; placing by pumping			
B	filling behind walls (FN)	m3		
	Reinforced concrete ; grade */*			
C	foundations, attached bases or pile caps (FN)	m3		
D	ground beams (FN)	m3		
E	walls ; * thick (FN)	m3		
	Mild steel bars ; links, stirrups, binders and special spacers ; PROVISIONAL			
F	* diameter (FN)	kg		
	High yield steel bars ; general reinforcement ; PROVISIONAL			
G	* diameter (FN)	kg		
	Sawn formwork ; vertical surfaces			
H	foundations, pile caps, ground beams and the like (FN)	m2		
J	walls (FN)	m2		
K	foundations, pile caps, ground beams and the like ; 150 - 225 wide (FN)	m		
	Sawn formwork left in ; vertical surfaces			
L	foundations, pile caps, ground beams and the like (FN)	m2		
M	walls (FN)	m2		
N	foundations, pile caps, ground beams and the like ; 150 - 225 wide (FN)	m		

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.5/2

To C ollection \$

UNDERPINNING

UNDERPINNING (Cont'd)

	Cutting away				
A	projections of existing reinforced concrete foundations	(FN)	m3		
	Loadbearing bricks ; class A ; cement mortar (1:3)				
B	walls ; one brick thick	(FN)	m2		
C	walls ; one and a half brick thick	(FN)	m2		
D	walls ; reduced to one brick thick	(FN)	m2		
	Cutting away				
E	projections of existing brick footings and the like	(FN)	m3		
	Cutting, tothing and bonding ends of				
F	wall to existing one brick thick wall each alternate course ; extra material ; * thick loadbearing brickwork	(FN)	m		
	Expanded metal reinforcement ; galvanised ; weighing not less than 1.6 kg/m2 ; in walls				
G	* wide	(FN)	m		
	Mild steel bonding rods ; bituminous coated ; cutting and pinning one end to concrete ; building one end into joint of brickwork				
H	6 diameter x 350 long	(FN)	nr		

UNDERPINNING

UNDERPINNING (Cont'd)

Mastic asphalt to BS 6925 type T1097 ; damp-proofing and tanking ; executed by a sub-contractor on the List of Approved Suppliers of Materials and Specialist Contractors for Public Works - Asphalt Roofing and Tanking

A	* thick three coat coverings ; on concrete ; vertical (FN)	m2
B	* thick three coat coverings ; on concrete ; horizontal (FN)	m2
C	* thick three coat coverings ; on concrete ; to soffits (FN)	m2
D	cutting back ; jointing to old asphalt (FN)	m
E	internal angle fillets ; in two coats (FN)	m

UNDERPINNING

C O L L E C T I O N

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Bill Nr. MODBQ.5 - UNDERPINNING

To Summary \$

Bill Nr. MODBQ.6
CONCRETOR

NOTE :

A Rates in this bill for *hardcore using recycled coarse aggregates / and concrete or reinforced concrete with recycled coarse aggregates shall be deemed to include all additional costs arising from substituting recycled coarse aggregates with natural coarse aggregates when so directed by the Architect or in case of shortage in supply of recycled coarse aggregates from the Recycling Plant at Tuen Mun Area 38 or any other unforeseeable problems accepted and approved in writing by the Architect.

(Guidance notes : 1. These items are to be used only when recycled coarse aggregates are specified by PSE.

2. * Delete as appropriate)

IN-SITU CONCRETE

Concrete ; grade 10/20

Blinding under foundations

B	50 thick	(SC)		m3	
---	----------	------	--	----	--

Concrete ; grade */*

Foundations, attached bases or pile caps

C	generally	(SC)		m3	
---	-----------	------	--	----	--

D	generally ; PROVISIONAL	(SC)		m3	
---	-------------------------	------	--	----	--

Isolated bases or pile caps

E	generally	(SC)		m3	
---	-----------	------	--	----	--

F	generally ; PROVISIONAL	(SC)		m3	
---	-------------------------	------	--	----	--

MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.6/1

	To C	ollection	\$	
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IN-SITU CONCRETE (Cont'd)

Beds

A	250 thick	(SC)	m3	
B	150 thick	(SC)	m3	

Copings

C	generally	(SC)	m3	
---	-----------	------	----	--

Concrete ; grade */* ; 100% recycled coarse aggregates

Beds

D	* thick	(SC)	m3	
---	---------	------	----	--

Planter walls

E	* thick	(SC)	m3	
---	---------	------	----	--

Benches

F	* generally	(SC)	m3	
---	-------------	------	----	--

Concrete ; grade */* ; 20% recycled coarse aggregates

Beds

G	* thick	(SC)	m3	
---	---------	------	----	--

Planter walls

H	* thick	(SC)	m3	
---	---------	------	----	--

Benches

J	* generally	(SC)	m3	
---	-------------	------	----	--

Reinforced concrete ; grade */*

Foundations, attached bases or pile caps

K	generally	(SC)	m3	
---	-----------	------	----	--

Isolated bases or pile caps

L	generally	(SC)	m3	
---	-----------	------	----	--

IN-SITU CONCRETE (Cont'd)

	Ground beams				
A	generally	(SC)	m3		
	Beds				
B	200 thick	(SC)	m3		
C	150 thick	(SC)	m3		
D	average 175 thick	(SC)	m3		
	Machine bases				
E	150 thick	(SC)	m3		
	Suspended slabs ; horizontal				
F	200 thick	(SC)	m3		
G	150 thick	(SC)	m3		
H	average * thick	(SC)	m3		
	Suspended slabs ; sloping not exceeding 15 degrees from horizontal				
J	* thick	(SC)	m3		
	Suspended slabs ; sloping exceeding 15 degrees from horizontal				
K	* thick	(SC)	m3		
	Filling and topping in suspended waffle slabs ; horizontal				
L	generally	(SC)	m3		
	Filling and topping in suspended ribbed slabs ; horizontal				
M	generally	(SC)	m3		
	Walls				
N	300 thick	(SC)	m3		
P	250 thick	(SC)	m3		

IN-SITU CONCRETE (Cont'd)

A	150 thick	(SC)	m3
B	average * thick	(SC)	m3
Retaining walls			
C	* thick	(SC)	m3
D	average * thick	(SC)	m3
Columns			
E	generally	(SC)	m3
Beams			
F	generally	(SC)	m3
Stairs			
G	generally	(SC)	m3
Casings to steel beams			
H	generally	(SC)	m3
Casings to steel stanchions			
J	generally	(SC)	m3
Curbs			
K	generally	(SC)	m3
Copings			
L	generally	(SC)	m3
Projecting cills			
M	generally	(SC)	m3
Strings			
N	generally	(SC)	m3
Cornices			
P	generally	(SC)	m3

IN-SITU CONCRETE (Cont'd)

Extra for thicknessings under beds

A * (average) wide x * thick (SC) m

Reinforced concrete ; grade */* ;
water repellant containing an
approved water-reducing admixture

Beds

B * thick (SC) m3

Suspended slabs ; horizontal

C * thick (SC) m3

Walls

D * thick (SC) m3

Columns

E generally (SC) m3

Beams

F generally (SC) m3

Reinforced concrete ; grade */* ;
100% recycled coarse aggregates

Beds

G * thick (SC) m3

Planter walls

H * thick (SC) m3

Benches

J * generally (SC) m3

Reinforced concrete ; grade */* ;
20% recycled coarse aggregates

Beds

K * thick (SC) m3

CONCRETOR

IN-SITU CONCRETE (Cont'd)

A	Planter walls * thick	(SC)	m3	
B	Benches * generally	(SC)	m3	
<u>Reinforced lightweight concrete ; cement and 5 vermiculite aggregate (1:6 by volume)</u>				
C	Benching under fitments * thick	(SC)	m3	
D	Filling around asiatic W.C. pan ; volume of pan not deducted generally	(SC)	m3	

REINFORCEMENT

Mild steel bars ; ALL PROVISIONAL

General reinforcement				
E	32 diameter	(SC)	kg	
F	25 diameter	(SC)	kg	
G	20 diameter	(SC)	kg	
H	* diameter	(SC)	kg	
J	* diameter ; 12.00 - 15.00m long	(SC)	kg	
Links, stirrups, binders and special spacers				
K	* diameter	(SC)	kg	

High yield steel bars ; ALL
PROVISIONAL

General reinforcement				
L	32 diameter	(SC)	kg	
M	25 diameter	(SC)	kg	

CONCRETOR

REINFORCEMENT (Cont'd)

A	20 diameter	(SC)	kg
B	* diameter	(SC)	kg
C	* diameter ; 12.00 - 15.00m long	(SC)	kg

Mild steel bars ; epoxy coated ; ALL PROVISIONAL

General reinforcement

D	32 diameter	(SC)	kg
E	25 diameter	(SC)	kg
F	20 diameter	(SC)	kg
G	* diameter	(SC)	kg
H	* diameter ; 12.00 - 15.00m long	(SC)	kg

Links, stirrups, binders and special spacers

J	* diameter	(SC)	kg
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High yield steel bars ; epoxy coated ; ALL PROVISIONAL

General reinforcement

K	32 diameter	(SC)	kg
L	25 diameter	(SC)	kg
M	20 diameter	(SC)	kg
N	* diameter	(SC)	kg
P	* diameter ; 12.00 - 15.00m long	(SC)	kg

Fabric reinforcement ; BS 4483

Square mesh ; Ref: A193 ; weighing 3.02 kg/m2 ; 200 minimum side and end laps ; measured net - allow for laps

Q	in concrete	(SC)	m2
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MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.6/7

To Collection \$

FORMWORK

Sawn formwork

Vertical surfaces

A	foundations, pile caps, ground beams and the like (SC)	m2
B	piers, columns and stanchions (SC)	m2
C	piers, columns and stanchions ; circular ; small radius (SC)	m2
D	piers, columns and stanchions ; circular ; medium radius (SC)	m2
E	walls (SC)	m2
F	walls ; circular ; large radius (SC)	m2
G	edges and breaks in walls exceeding 225 wide (SC)	m2
H	edges and breaks in suspended slabs exceeding 225 wide (SC)	m2
J	edges and breaks in slabs exceeding 225 wide (SC)	m2
K	curbs or upstands exceeding 225 wide (SC)	m2
Flat surfaces		
L	soffits of suspended slabs (SC)	m2
M	soffits of suspended slabs ; exceeding 225 thick (SC)	m2
N	soffits of suspended slabs ; strutting 3.50 - 5.00m high (SC)	m2
P	soffits of suspended slabs ; exceeding 225 thick ; strutting 3.50 - 5.00m high (SC)	m2

FORMWORK (Cont'd)

A	soffits of suspended waffle slabs * overall thick ; measured flat overall - waffle moulds measured separately (SC)	m2
B	soffits of suspended waffle slabs * overall thick ; measured flat overall - waffle moulds measured separately ; strutting 3.50 - 5.00m high (SC)	m2
C	sides and soffits of beams (SC)	m2
D	sides and soffits of beams ; exceeding 750 deep (SC)	m2
E	sides and soffits of beams ; strutting 3.50 - 5.00m high (SC)	m2
F	sides and soffits of beams ; exceeding 750 deep ; strutting 3.50 - 5.00m high (SC)	m2
G	soffits of openings in walls exceeding 225 wide (SC)	m2
Sloping surfaces		
H	soffits of suspended slabs (SC)	m2
J	soffits of suspended slabs ; strutting 3.50 - 5.00m high (SC)	m2
K	sides and soffits of beams (SC)	m2
L	sides and soffits of beams ; strutting 3.50 - 5.00m high (SC)	m2
M	soffits of staircases (SC)	m2
N	soffits of staircases ; strutting 3.50 - 5.00m high (SC)	m2
P	upper surfaces exceeding 15 degrees from horizontal (SC)	m2

FORMWORK (Cont'd)

Vertical surfaces ; 75 - 150 wide

A	edges and breaks in walls	(SC)	m	
B	edges and breaks in suspended slabs	(SC)	m	
C	edges and breaks in slabs	(SC)	m	
D	curbs or upstands	(SC)	m	

Vertical surfaces ; 150 - 225 wide

E	edges and breaks in walls	(SC)	m	
F	edges and breaks in suspended slabs	(SC)	m	
G	edges and breaks in slabs	(SC)	m	
H	curbs or upstands	(SC)	m	
J	undercut risers	(SC)	m	

Vertical surfaces ; 225 - 300 wide

K	open strings	(SC)	m	
---	--------------	------	---	--

Flat surfaces ; not exceeding 500 wide

L	edges and soffits of copings, cills, strings, cornices, eaves overhangs and the like * girth	(SC)	m	
---	--	------	---	--

Extra over formwork to walls

M	for formwork to projecting surfaces of copings, cills, strings, cornices, eaves overhangs and the like * girth	(SC)	m	
---	--	------	---	--

Fillets on formwork ; planted on ; forming ornamental features

N	* x *	(SC)	m	
---	-------	------	---	--

FORMWORK (Cont'd)

Surfaces of cantilever ends or brackets and the like

A	* x * x *	(SC)	nr	
---	-----------	------	----	--

Formwork to produce fair faced finish ; lining with plywood

Vertical surfaces

B	piers, columns and stanchions	(SC)	m2	
---	-------------------------------	------	----	--

C	walls	(SC)	m2	
---	-------	------	----	--

Flat surfaces

D	soffits of suspended slabs	(SC)	m2	
---	----------------------------	------	----	--

E	soffits of suspended slabs ; strutting 3.50 - 5.00m high	(SC)	m2	
---	---	------	----	--

F	sides and soffits of beams	(SC)	m2	
---	----------------------------	------	----	--

G	sides and soffits of beams ; strutting 3.50 - 5.00m high	(SC)	m2	
---	---	------	----	--

Sloping surfaces

H	soffits of suspended slabs	(SC)	m2	
---	----------------------------	------	----	--

J	soffits of staircases	(SC)	m2	
---	-----------------------	------	----	--

Sawn formwork left in

Vertical surfaces

K	piers, columns and stanchions	(SC)	m2	
---	-------------------------------	------	----	--

L	walls	(SC)	m2	
---	-------	------	----	--

Flat surfaces

M	soffits of suspended slabs	(SC)	m2	
---	----------------------------	------	----	--

N	sides and soffits of beams	(SC)	m2	
---	----------------------------	------	----	--

FORMWORK (Cont'd)

Sawn boxings to form the following

Holes for pipes

A	300 diameter ; through * thick concrete	(SC)	nr	
---	---	------	----	--

Openings

B	0.025 - 0.10m2 ; through * thick concrete	(SC)	nr	
---	---	------	----	--

C	0.40 - 0.50m2 ; through * thick concrete	(SC)	nr	
---	--	------	----	--

SPECIAL FORMWORK

GRP moulds laid on formwork (measured separately) ; forming suspended waffle slabs

Moulds

D	* x * x *	(SC)	nr	
---	-----------	------	----	--

PRECAST CONCRETE

Precast concrete ; grade 20/20

Copings ; bedding in cement mortar (1:3)

E	* x * ; weathered ; reinforcing with one 10 diameter mild steel bar ; fair faced finish * girth and pointing with a flush joint all round	(SC)	m	
---	---	------	---	--

F	angles ; on coping ; * x *	(SC)	nr	
---	----------------------------	------	----	--

Cills ; bedding in cement mortar (1:3)

G	* x * ; sunk weathered ; reinforcing with two 6 diameter mild steel bars ; fair faced finish * girth and pointing with a flush joint all round (In Nr. 0)	(SC)	m	
---	---	------	---	--

H	stoolings ; on cills ; * x *	(SC)	nr	
---	------------------------------	------	----	--

PRECAST CONCRETE (Cont'd)

Lintols ; bedding in cement mortar
(1:3)

A 100 x 150 ; reinforcing with
one 12 diameter mild steel bar
(In Nr. 0) (SC)

m

B * x * ; reinforcing with one 16
diameter mild steel bar ;
units exceeding 2.00m long (In
Nr. 0) (SC)

m

Louvres ; bedding in cement mortar
(1:3)

C * x * ; twice splayed ;
reinforcing with four 10
diameter mild steel bars ;
fair faced finish * girth and
pointing with a flush joint
all round ; units exceeding
2.00m long (In Nr. 0) (SC)

m

Duct covers

D * x * x * ; reinforcing with 10
diameter mild steel bars at
150 centres both ways ; two 6
diameter mild steel lifting
lugs ; fair faced finish to
top and edges (SC)

nr

IN-SITU PRESTRESSED CONCRETE ;
POST-TENSIONED WORK TO BEAMS AND
SLABS ; AS DRAWING NR. *

Reinforced concrete ; grade */*

Suspended slabs ; horizontal

E * thick (SC)

m3

Beams

F generally (SC)

m3

CONCRETOR

IN-SITU PRESTRESSED CONCRETE ;
POST-TENSIONED WORK TO BEAMS AND
SLABS ; AS DRAWING NR. * (Cont'd)

Mild steel bar reinforcement ; ALL
PROVISIONAL

Links, stirrups, binders and
special spacers

A * diameter (SC) kg

High yield bar reinforcement ; ALL
PROVISIONAL

General reinforcement

B * diameter (SC) kg

Mild steel bar reinforcement ;
epoxy coated ; ALL PROVISIONAL

Links, stirrups, binders and
special spacers

C * diameter (SC) kg

High yield bar reinforcement ;
epoxy coated ; ALL PROVISIONAL

General reinforcement

D * diameter (SC) kg

Sawn formwork

Flat surfaces

E soffits of suspended slabs (SC) m2

F sides and soffits of beams (SC) m2

Ducts ; permanent sheathing of
suitable diameter to enclose
tendons ; in reinforced concrete
beams and slabs ; pressure
grouting after tensioning

Curved ducts

G for tendon formed of twelve
strands, each 15.2 diameter ;
in lengths * - *m (In Nr. 0)
(SC) m

MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.6/14

To Collection \$

IN-SITU PRESTRESSED CONCRETE ;
POST-TENSIONED WORK TO BEAMS AND
SLABS ; AS DRAWING NR. * (Cont'd)

SUPPLY ONLY tendons comprising the
following prestressing strands ;
measured net lengths between
outer faces of anchorages - allow
for extra lengths for tensioning

Seven wire strands

A	of 15.2 diameter ; UTS * KN (SC)	kg	
---	----------------------------------	----	--

FIX ONLY the following tendons in
straight or curved sheathing
(measured separately)

Tendons

B	formed of twelve strands, each 15.2 diameter ; * long between outer faces of anchorages (SC)	nr	
---	--	----	--

Tensioning the following tendons

Tendons

C	formed of twelve strands, each 15.2 diameter ; jacking force of * KN ; applied from one end (SC)	nr	
---	---	----	--

Anchorage ; complete assemblies
comprising bearing plates,
guides, cones, wedges and the
like ; fixing in position ;
formwork to form recesses ;
filling recesses with epoxy
mortar after completion of
stressing

Live anchorages ; fixing to beams
and slabs

D	for tendon formed of twelve strands, each 15.2 diameter (SC)	nr	
---	--	----	--

IN-SITU PRESTRESSED CONCRETE ;
POST-TENSIONED WORK TO BEAMS AND
SLABS ; AS DRAWING NR. * (Cont'd)

Dead anchorages ; fixing to beams
 and slabs

A for tendon formed of twelve
 strands, each 15.2 diameter (SC)

nr

Testing

Allow for submitting to the
 Architect a sample of each type
 of anchorage to be used together
 with two test pieces from each
 coil of strand

B paying all fees and charges in
 connection with testing each
 of these items by an authority
 specified by the Architect (SC)

item

MOVEMENT JOINTS

Joints in concrete

Forming movement joints ; formwork

C * wide x * deep ; filling with
 Flexcell * wide ; sealing with
 * x * two part polysulphide
 sealant ; one side (SC)

m

D * wide x * girth ; filling with
 Flexcell * girth ; cutting
 joint filler ; sealing with *
 x * two part polysulphide
 sealant ; one side (SC)

m

Waterstops ; PVC ; centre bulb
 section ; as Expandite Supercast
 Hydrofoil

E * wide ; casting into concrete
 ; temporary fixing to formwork
 (SC)

m

F * wide ; casting into concrete
 ; temporary fixing to formwork
 ; PROVISIONAL (SC)

m

MOVEMENT JOINTS (Cont'd)

A	prefabricated angles ; on * wide waterstop ; welded joints (SC)	nr	
B	prefabricated flat mitres ; on * wide waterstop ; welded joints (SC)	nr	
C	prefabricated tees ; on * wide waterstop ; welded joints (SC)	nr	
D	prefabricated flat tees ; on * wide waterstop ; welded joints (SC)	nr	
E	prefabricated flat intersections ; on * wide waterstop ; welded joints (SC)	nr	
F	Waterstops ; PVC ; externally placed section ; as Serviseal External * wide ; casting into concrete ; temporary fixing to formwork (SC)	m	
G	* wide ; casting into concrete ; temporary fixing to formwork ; PROVISIONAL (SC)	m	
H	prefabricated angles ; on * wide waterstop ; welded joints (SC)	nr	
J	prefabricated flat mitres ; on * wide waterstop ; welded joints (SC)	nr	
K	prefabricated tees ; on * wide waterstop ; welded joints (SC)	nr	
L	prefabricated flat tees ; on * wide waterstop ; welded joints (SC)	nr	
M	prefabricated flat intersections ; on * wide waterstop ; welded joints (SC)	nr	

MOVEMENT JOINTS (Cont'd)

Bonding rods ; mild steel ;
coating half length with two
coats of bituminous compound ;
sheathing half length in PVC
tubing ; packing with cotton
waste between tubing and rod ;
casting assembly into concrete

A	* diameter x * long rods	(SC)	nr	
---	--------------------------	------	----	--

SUNDRIES

Sundry items

Surfaces of existing concrete

B	hacking to form key	(SC)	m2	
---	---------------------	------	----	--

Surfaces of concrete

C	finishing with a wood float	(SC)	m2	
---	-----------------------------	------	----	--

D	finishing with a steel trowel or power float	(SC)	m2	
---	---	------	----	--

E	finishing with a stiff brush	(SC)	m2	
---	------------------------------	------	----	--

F	finishing with a board edge	(SC)	m2	
---	-----------------------------	------	----	--

Treating surfaces with an approved
liquid hardener ; in accordance
with the manufacturer's
instructions

G	to concrete floors	(SC)	m2	
---	--------------------	------	----	--

Treating surfaces with carborundum
grains ; sprinkling on and
lightly trowelling in before
setting at the rate of 2 kg/m2

H	to concrete floors	(SC)	m2	
---	--------------------	------	----	--

Applying one coat of bituminous
paint

J	on concrete surfaces	(SC)	m2	
---	----------------------	------	----	--

SUNDRIES (Cont'd)

	Layer of reinforced waterproof building paper ; lapped at joints	(SC)	m2	
A	laying on concrete ; measured net - allow for laps			
	Layer of polythene sheeting ; lapped at joints	(SC)	m2	
B	laying on concrete ; measured net - allow for laps			
	Bituthene waterproofing membrane ; lapped at joints	(SC)	m2	
C	laying on concrete ; measured net - allow for laps			
	Cement grouting under steel stanchion bases or grillages	(SC)	m2	
D	* thick			
	Plastic weep pipes ; casting into concrete	(SC)	nr	
E	* diameter x * long			
	<u>Testing</u>			
	Core tests to plain or reinforced concrete ; thicknesses and locations as directed by the Architect or his representative ; making good core hole with similar concrete and all works disturbed	(SC)	nr	
F	* diameter x * deep ; PROVISIONAL			
	Watertightness test for water tanks	(SC)	item	
G	tank size ; approximately * x * x * deep internally			

CONCRETOR

C O L L E C T I O N

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Bill Nr. MODBQ.6 - CONCRETOR

To Summary \$

Bill Nr. MODBQ.7
BRICKLAYER

BRICKWORK

Common bricks ; cement mortar
(1:3)

Walls

A	half brick thick	(IP)	m2
B	one brick thick	(IP)	m2
C	one and half brick thick	(IP)	m2
D	reduced to one brick thick	(IP)	m2
E	* thick	(IP)	m2

Walls ; circular on plan ; cutting
and templates ; large radius

F	half brick thick	(IP)	m2
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Hollow walls

G	half brick thick inner skin ; half brick thick outer skin ; 50 thick cavity ; wall ties at 900 centres horizontally and 320 centres vertically, staggered	(IP)	m2
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Filling in openings

H	half brick thick	(IP)	m2
---	------------------	------	----

Isolated piers and chimney stacks

J	one brick thick	(IP)	m2
K	one and half brick thick	(IP)	m2
L	reduced to one brick thick	(IP)	m2

Dwarf walls

M	half brick thick	(IP)	m2
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BRICKWORK (Cont'd)

Common bricks ; cement/lime mortar
(1:2:9)

Walls

A half brick thick (IP) m2

B one brick thick (IP) m2

C reduced to one brick thick (IP) m2

Filling in openings

D one brick thick (IP) m2

Isolated piers and chimney stacks

E one brick thick (IP) m2

F one and half brick thick (IP) m2

G reduced to one brick thick (IP) m2

Dwarf walls

H one brick thick (IP) m2

Loadbearing bricks ; Class A ;
cement mortar (1:3)

Walls ;

J one brick thick (IP) m2

Concrete bricks ; cement mortar
(1:3)

Walls

K half brick thick (IP) m2

L one brick thick (IP) m2

Filling in openings

M one brick thick (IP) m2

Isolated piers and chimney stacks

N one brick thick (IP) m2

P one and half brick thick (IP) m2

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.7/2

To Collection \$

BRICKWORK (Cont'd)

A reduced to one brick thick (IP) m2

Dwarf walls

B one brick thick (IP) m2

BLOCKWORK

Hollow concrete blocks 250 long x 125 high ; cement mortar (1:3)

Walls or partitions

C 100 thick (IP) m2

D 150 thick (IP) m2

Walls or partitions ; finished smooth and pointing with a flush joint one side

E * thick (IP) m2

Walls or partitions ; finished smooth and pointing with a flush joint both sides

F * thick (IP) m2

Filling in hollow blocks with cement mortar (1:3)

G at ends and intersections * wide (IP) m

Cutting, tothing and bonding end of wall to brick wall each alternate course ; extra material

H * thick (IP) m

Solid concrete blocks 250 long x 125 high ; cement mortar (1:3)

Walls or partitions

J 100 thick (IP) m2

K 150 thick (IP) m2

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.7/3

To Collection \$

BRICKLAYER

BLOCKWORK (Cont'd)

	Walls or partitions ; finished smooth and pointing with a flush joint one side	(IP)		m2		
A	* thick					
	Walls or partitions ; finished smooth and pointing with a flush joint both sides	(IP)		m2		
B	* thick					
	Cutting, tothing and bonding end of wall to brick wall each alternate course ; extra material	(IP)		m		
C	* thick					
<u>BRICK FACEWORK</u>						
<u>Extra over common bricks in any mortar for</u>						
	Fair face ; pointing	(IP)		m2		
D	walls and the like					
	* facing bricks ; pointing	(IP)		m2		
E	walls and the like					
<u>Extra over concrete bricks in any mortar for</u>						
	Fair face ; pointing	(IP)		m2		
F	walls and the like					
<u>Common bricks ; cement mortar (1:3)</u>						
	Walls	(IP)		m2		
G	half brick thick ; fair face and pointing both sides					
H	one brick thick ; fair face and pointing both sides	(IP)		m2		

BRICK FACEWORK (Cont'd)

* facing bricks ; cement/lime
mortar (1:2:9)

Walls

A	half brick thick ; facing and pointing one side	(IP)	m2
B	half brick thick ; facing and pointing both sides	(IP)	m2
C	one brick thick ; facing and pointing both sides	(IP)	m2

DAMP PROOF COURSES

Two layers of fibre based bitumen to BS 6398 Class B ; levelling mortar bed ; measured net - allow for laps

Horizontal

D	over 225 wide	(IP)	m2
E	100 wide	(IP)	m
F	215 wide	(IP)	m

SUNDRIES

Sundry items

Closing cavities of hollow walls

G	at ends with 100 blockwork set on edge	(IP)	m
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Expanded metal reinforcement ; galvanised ; weighing not less than 1.6 kg/m2 ; in walls

H	* wide	(IP)	m
---	--------	------	---

Mild steel bonding rods ; bituminous coated ; cutting and pinning one end to concrete ; building one end into joint of brickwork

J	6 diameter x 350 long	(IP)	nr
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SUNDRIES (Cont'd)

Mild steel bonding ties ;
galvanised ; fanged at both ends
; cutting and pinning one end to
concrete ; building one end into
joint of brickwork

A	3 x 20 x 150 long	(IP)	nr
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C O L L E C T I O N

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Bill Nr. MODBQ.7 - BRICKLAYER

To Summary \$

Bill Nr. MODBQ.8
DRAINLAYER

NOTE :

A Rates in this bill for *hardcore using recycled coarse aggregates / and concrete or reinforced concrete with recycled coarse aggregates shall be deemed to include all additional costs arising from substituting recycled coarse aggregates with natural coarse aggregates when so directed by the Architect or in case of shortage in supply of recycled coarse aggregates from the Recycling Plant at Tuen Mun Area 38 or any other unforeseeable problems accepted and approved in writing by the Architect.

(Guidance notes : 1. These items are to be used only when recycled coarse aggregates are specified by PSE.

2. * Delete as appropriate)

SOIL AND SURFACE WATER DRAINAGE

Excavating trenches for drain pipes

Not exceeding 200 internal diameter ; not exceeding 1.50m total depth

B	0.75m average depth	(DR)		m		
---	---------------------	------	--	---	--	--

C	1.00m average depth	(DR)		m		
---	---------------------	------	--	---	--	--

Not exceeding 200 internal diameter ; 1.50 - 3.00m total depth

D	*m average depth	(DR)		m		
---	------------------	------	--	---	--	--

DRAINLAYER

SOIL AND SURFACE WATER DRAINAGE
(Cont'd)

* Internal diameter ; not
exceeding 1.50m total depth

A *m average depth (DR) m

* Internal diameter ; 1.50 - 3.00m
total depth

B *m average depth (DR) m

Granular bedding ; recycled
material

Beds

C * x * under * diameter pipes (DR) m

Beds and backfilling

D * x * to * diameter pipes (DR) m

Granular bedding ; non-recycled
material

Beds

E * x * under * diameter pipes (DR) m

Beds and backfilling

F * x * to * diameter pipes (DR) m

Concrete; grade 10/20

Beds ; formwork

G * x * under * diameter pipes (DR) m

Beds and haunchings ; formwork

H * x * under * diameter pipes (DR) m

Beds and surrounds ; formwork

J * x * under * diameter pipes ;
surrounds minimum * thick (DR) m

SOIL AND SURFACE WATER DRAINAGE
(Cont'd)

	Surrounds to vertical pipes ; formwork				
A	* x * to * diameter pipes (DR)		m		
	<u>Concrete; grade */* ; 100% recycled coarse aggregate</u>				
	Beds ; formwork				
B	* x * under * diameter pipes (DR)		m		
	Beds and haunchings ; formwork				
C	* x * under * diameter pipes (DR)		m		
	Beds and surrounds ; formwork				
D	* x * under * diameter pipes ; surrounds minimum * thick (DR)		m		
	Surrounds to vertical pipes ; formwork				
E	* x * to * diameter pipes (DR)		m		
	<u>Concrete; grade */* ; 20% recycled coarse aggregate</u>				
	Beds ; formwork				
F	* x * under * diameter pipes (DR)		m		
	Beds and haunchings ; formwork				
G	* x * under * diameter pipes (DR)		m		
	Beds and surrounds ; formwork				
H	* x * under * diameter pipes ; surrounds minimum * thick (DR)		m		
	Surrounds to vertical pipes ; formwork				
J	* x * to * diameter pipes (DR)		m		
	MODEL BILL OF DESCRIPTIONS ASD STANDARD BILLS MODBQ.8/3				
			To C	ollection \$	

DRAINLAYER

SOIL AND SURFACE WATER DRAINAGE
(Cont'd)

Reinforced concrete; grade 20/20

Beds ; formwork

A * x * under * diameter pipes

(DR)

m

Beds and haunchings ; formwork

B * x * under * diameter pipes

(DR)

m

Beds and surrounds ; formwork

C * x * under * diameter pipes ;
surrounds minimum * thick

(DR)

m

Reinforced concrete; grade */* ;
100% recycled coarse aggregate

Beds ; formwork

D * x * under * diameter pipes

(DR)

m

Beds and haunchings ; formwork

E * x * under * diameter pipes

(DR)

m

Beds and surrounds ; formwork

F * x * under * diameter pipes ;
surrounds minimum * thick

(DR)

m

Reinforced concrete; grade */* ;
20% recycled coarse aggregate

Beds ; formwork

G * x * under * diameter pipes

(DR)

m

Beds and haunchings ; formwork

H * x * under * diameter pipes

(DR)

m

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.8/4

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SOIL AND SURFACE WATER DRAINAGE
(Cont'd)

	Beds and surrounds ; formwork			
A	* x * under * diameter pipes ; surrounds minimum * thick (DR)		m	
	<u>Reinforcement ; mild steel bars</u>			
	General reinforcement			
B	10 diameter (DR)		kg	
	<u>Concrete pipes and fittings ;</u> <u>class * ; reinforced ; spigot and</u> <u>socket joints</u>			
	Pipes ; vertical			
C	* internal diameter (DR)		m	
	Extra over pipes for			
D	* bends (DR)		nr	
E	* x * x * single branch junctions (DR)		nr	
F	* flexible joints (DR)		nr	
	<u>Glazed clayware pipes and fittings</u> <u>; flexible sleeve joints</u>			
	Pipes ; on bed ; in trench			
G	* internal diameter (DR)		m	
	Extra over pipes for			
H	* bends (DR)		nr	
J	* x * x * single branch junctions (DR)		nr	
	<u>Cast iron pipes and fittings ;</u> <u>spigot and socket joints</u>			
	Pipes ; on bed ; in trench			
K	* internal diameter (DR)		m	

SOIL AND SURFACE WATER DRAINAGE
(Cont'd)

Extra over pipes for

A	* bends	(DR)	nr	
B	* x * x * single branch junctions	(DR)	nr	
C	* flexible joints	(DR)	nr	

Cast iron pipes and fittings ;
flanged and bolted joints

Pipes ; vertical

D	* internal diameter	(DR)	m	
---	---------------------	------	---	--

Pipes ; suspended

E	* internal diameter	(DR)	m	
---	---------------------	------	---	--

Extra over pipes for

F	* bends	(DR)	nr	
G	* bends with bolted access door	(DR)	nr	
H	* x * x * single branch junctions	(DR)	nr	
J	* blank caps	(DR)	nr	
K	* socket plugs	(DR)	nr	
L	* flexible joints	(DR)	nr	

Perforated plastic pipes and
fittings ; open joints

Pipes ; on bed ; in trench

M	* internal diameter	(DR)	m	
---	---------------------	------	---	--

Extra over pipes for

N	* bends	(DR)	nr	
P	* x * x * single branch junctions	(DR)	nr	

SOIL AND SURFACE WATER DRAINAGE
(Cont'd)

Cast iron traps, gullies, gratings
and the like

Gullies ; bedding and surrounding
with concrete grade 20/20 150
thick ; formwork ; excavation and
disposal ; jointing to pipes

A * trapped outlet ; * x *
rebated tops ; * x * cast iron
hinged gratings and frames (DR) nr

B * trapped outlet ; * diameter
rebated tops ; * diameter cast
iron hinged gratings and
frames (DR) nr

Grease gullies ; bedding and
surrounding with concrete grade
20/20 150 thick ; formwork ;
excavation and disposal ;
jointing to pipes

C * outlet ; * x * rebated tops ;
* x * cast iron hinged
gratings and frames ;
removable galvanised steel
strainers with handles (DR) nr

Raising surrounds ; 100 concrete
grade 20/20 sides to gullies in
forming hoppers ; 150 reinforced
concrete grade 20/20 cover slab ;
four 12 diameter mild steel bars
; openings for gratings (gratings
measured separately) ; dishing to
outlets and inlets ; excavation ;
disposal and formwork

D hoppers * x * x * deep
internally (DR) nr

Fresh air inlets ; brass front ;
mica flap ; jointing to pipes

E 100 x 150 (DR) nr

SOIL AND SURFACE WATER DRAINAGE
(Cont'd)

A	Road gully gratings and frames ; bedding and haunching frames in cement mortar * x * ; weighing approximately * kg (DR)	nr
B	<u>Gunmetal pipe supports</u> Supports ; split rings ; threaded stems ; backplates ; plugging and fixing with brass screws to suit * internal diameter pipes (DR)	nr
C	<u>Surface channels, road margins</u> Concrete ; grade 20/20 ; road margins ; rectangular ; * wide x * thick * wide x * extreme deep splayed waterway (DR)	m
D	Concrete ; grade 20/20 ; channels ; half round ; * thick sides ; * thick bottoms ; excavation, disposal and formwork ; movement joints ; rendering surfaces with 12 cement and sand (1:3) trowelled smooth * wide x * (average) deep waterway (DR)	m
E	* wide x * (average) deep waterway ; 350 girth x 80 thick apron one side (DR)	m
F	* wide x * (average) deep waterway ; stepping to faces of embankments ; * x * x * anchor blocks under at * maximum centres (DR)	m
G	extra over waterways for forming sump below channel invert ; * x * x * deep internally ; * sides ; * bottom ; cast iron grating (DR)	nr

SOIL AND SURFACE WATER DRAINAGE
(Cont'd)

Precast concrete ; grade 20/20 ;
channel covers ; in 600 lengths ;
6 diameter mild steel bars, * nr.
longitudinal and * nr. transverse
; notching 25 x 150 at each end ;
fair faced finish to top and
edges

A	* thick x * wide	(DR)	m	
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Cast iron channel gratings ; in
600 lengths ; * x * slots at *
centres

B	* thick x * wide ; weighing approximately * kg/m2	(DR)	m	
---	--	------	---	--

Applying two coats of black
bitumastic paint ; on cast iron

Channel gratings ; all surfaces

C	* thick x * wide	(DR)	m	
---	------------------	------	---	--

Gulley gratings and frames ; all
surfaces

D	* x *	(DR)	nr	
---	-------	------	----	--

Applying knotting, two coats of
black bitumastic paint ; on
coated cast iron

Pipes

E	small	(DR)	m	
---	-------	------	---	--

F	large	(DR)	m	
---	-------	------	---	--

G	* diameter	(DR)	m	
---	------------	------	---	--

MANHOLES, INSPECTION CHAMBERS AND
THE LIKE

Manholes; * nr.

Excavating pits ; commencing at
reduced level

H	not exceeding 1.50m deep	(DR)	m3	
---	--------------------------	------	----	--

MANHOLES, INSPECTION CHAMBERS AND
THE LIKE (Cont'd)

A	1.50 - 3.00m deep	(DR)	m3	
B	3.00 - 4.50m deep	(DR)	m3	
	Excavated material			
C	backfilling ; depositing ; compacting	(DR)	m3	
	Surplus excavated material			
D	removing from site	(DR)	m3	
	Concrete ; grade 20/20			
E	beds ; horizontal ; * thick	(DR)	m3	
F	walls ; * thick	(DR)	m3	
G	walls ; * average thick	(DR)	m3	
H	benchings ; formwork ; forming half round main channels and three quarter section branch channels ; finishing to steep falls from sides ; rendering surfaces with 15 cement and sand (1:3) trowelled smooth ; average * thick	(DR)	m2	
	Reinforced concrete ; grade 20/20			
J	suspended slabs ; horizontal ; * thick	(DR)	m3	
	Reinforcement ; mild steel bars			
K	general reinforcement ; * diameter	(DR)	kg	
	Sawn formwork ; vertical surfaces			
L	walls	(DR)	m2	
	Sawn formwork ; flat surfaces			
M	soffits of suspended slabs	(DR)	m2	
	Sawn formwork ; sloping surfaces			
N	walls	(DR)	m2	
	MODEL BILL OF DESCRIPTIONS ASD STANDARD BILLS MODBQ.8/10		To C	ollection \$

MANHOLES, INSPECTION CHAMBERS AND THE LIKE (Cont'd)

A	Sawn boxings to form openings * - *m2 ; through * thick concrete (DR)	nr
B	Mild steel to BS 4360 grade 43A ; bolted fabrication 127 x 76 x 13.36 kg joists (DR)	kg
C	connections ; 150 x 150 x 27.30 kg angles ; in cleats (DR)	kg
D	bolts ; nuts and washers ; 16 diameter (In Nr. 0) (DR)	kg
E	Collecting from Government Logistic Centres and FIXING ONLY manholes covers and frames ; bedding and haunching frame in cement mortar ; sealing cover in grease * x * clear opening ; weighing approximately * kg (DR)	nr
F	Cast iron manhole covers and frames to BS EN 124 ; Class A15 Ref. * ; recessed ; double seal ; bedding and haunching frame in cement mortar ; sealing cover in grease * x * clear opening ; weighing approximately * kg (DR)	nr
G	Cast iron manhole covers and frames to BS EN 124 ; Class B125 Ref. * ; bedding and haunching frame in cement mortar ; sealing cover in grease * x * clear opening ; weighing approximately * kg (DR)	nr

MANHOLES, INSPECTION CHAMBERS AND THE LIKE (Cont'd)

Cast iron manhole covers and frames to BS EN 124 Class C250 ; Ref. * ; bedding and haunching frame in cement mortar ; sealing cover in grease

A	* x * clear opening ; weighing approximately * kg (DR)	nr
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Manhole steps ; malleable iron

B	general purpose pattern ; casting into concrete (DR)	nr
---	--	----

Cast iron pipes and fittings ; lead run joints

C	* internal diameter ; vertical (DR)	m
---	-------------------------------------	---

D	extra over pipes for ; * shoes (DR)	nr
---	-------------------------------------	----

E	extra over pipes for ; * x * x * swept branch junctions (DR)	nr
---	--	----

F	extra over pipes for ; * blank caps (DR)	nr
---	--	----

Applying two coats of black bitumastic paint ; on cast iron

G	pipes ; large (DR)	m
---	--------------------	---

H	pipes ; * diameter (DR)	m
---	-------------------------	---

J	manholes covers and frames ; * x * clear opening ; all surfaces (DR)	nr
---	--	----

K	manhole steps ; general purpose pattern ; all surfaces ; before fixing (DR)	nr
---	---	----

Catchpits; * nr.

Excavating pits ; commencing at reduced level

L	not exceeding 1.50m deep (DR)	m3
---	-------------------------------	----

MANHOLES, INSPECTION CHAMBERS AND THE LIKE (Cont'd)

A	1.50 - 3.00m deep	(DR)	m3	
	Excavated material			
B	backfilling ; depositing ; compacting	(DR)	m3	
	Surplus excavated material			
C	removing from site	(DR)	m3	
	Concrete ; grade 20/20			
D	beds ; horizontal ; * thick	(DR)	m3	
E	walls ; * thick	(DR)	m3	
	Sawn formwork ; vertical surfaces			
F	walls	(DR)	m2	
	Precast concrete ; grade 20/20 ; cover slabs			
G	* x * x * ; reinforcing with * diameter mild steel bars at * centres both ways ; two * diameter mild steel lifting lugs ; fair faced finish to top and edges	(DR)	nr	
	Manhole steps ; malleable iron			
H	general purpose pattern ; casting into concrete	(DR)	nr	
	Applying two coats of black bitumastic paint ; on cast iron			
J	manhole steps ; general purpose pattern ; all surfaces ; before fixing	(DR)	nr	
	<u>Connections</u>			
	Connection to Government sewers ; flexible joints			
K	cast iron pipes ; 150 diameter	(DR)	nr	

SUNDRIES

Testing

Testing the whole of the works in accordance with G.S. for Building ; remedying any defects ; re-testing as necessary ; leaving in sound order

A soil and surface water drainage systems including granular bedding material (DR)

item

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To Summary \$



Bill Nr. MODBQ.9
ASPHALTER

DAMP-PROOFING AND TANKING

Mastic asphalt ; to BS 6925 type
T1097

One coat coverings ; on brickwork
or blockwork ; horizontal

A	15 thick ; in thickness of walls	(EF)		m2	
---	-------------------------------------	------	--	----	--

Two coat coverings ; expanded
metal lathing reinforcement ; on
concrete ; sloping

B	13 thick	(EF)		m2	
---	----------	------	--	----	--

Two coat coverings ; felt
isolating membrane ; expanded
metal lathing reinforcement ; on
concrete ; sloping

C	20 thick	(EF)		m2	
---	----------	------	--	----	--

Three coat coverings ; on concrete
; vertical

D	20 thick	(EF)		m2	
---	----------	------	--	----	--

jointing to old asphalt ;
cutting back

E		(EF)		m	
---	--	------	--	---	--

Three coat coverings ; felt
isolating membrane ; on concrete
; horizontal

F	30 thick	(EF)		m2	
---	----------	------	--	----	--

jointing to old asphalt ;
cutting back

G		(EF)		m	
---	--	------	--	---	--

Internal angle fillets

in two coats

H		(EF)		m	
---	--	------	--	---	--

Three coat linings to sumps ; on
concrete

* thick ; * x * x * deep

J		(EF)		nr	
---	--	------	--	----	--

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ROOF COVERINGS

Mastic asphalt ; to BS 6925 type R988 ; manufactured with asphaltic cement specified under Table 1 column B (100 % bitumen)

Two coat coverings ; felt isolating membrane ; on screeds ; horizontal

A 20 thick (EF) m2

B working asphalt to outlet pipes (EF) nr

C dishing to gullies (EF) nr

Two coat coverings ; expanded metal lathing reinforcement ; on screeds ; sloping

D 13 thick (EF) m2

Two coat coverings ; felt isolating membrane ; expanded metal lathing reinforcement ; on screeds ; sloping

E 20 thick (EF) m2

Two coat skirtings ; on concrete

F * thick x * (average) high on exposed face ; angle fillet at bottom ; turn in at top (EF) m

Two coat linings to gutters ; on concrete

G * thick x * girth on exposed face ; two angle fillets ; two arrises (EF) m

H outlets (EF) nr

Two coat coverings to curbs or upstands ; on concrete

J * thick x * girth on exposed face ; two angle fillets ; two arrises (EF) m

ROOF COVERINGS (Cont'd)

A	Two coat collars ; around pipes ; on cast iron 150 high	(EF)	nr
B	Solar protection ; on asphalt ; vertical reflective paint ; two coat application	(EF)	m2
C	Solar protection ; on asphalt ; horizontal white stone chippings ; bedding in bitumen compound	(EF)	m2
D	Solar protection ; on asphalt ; sloping reflective paint ; two coat application	(EF)	m2

ASPHALTER

C O L L E C T I O N

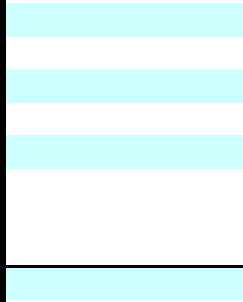
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To Summary \$



Bill Nr. MODBQ.10

STONE MASON

STONE RUBBLE WORK

Local granite ; random rubble work
; cement mortar joints

Walling

A	exceeding 250 thick	(EW)	m3	
	Walling ; battering one face ; all cutting ; rate of batter 1 in 9			
B	exceeding 250 thick ; * mean thickness	(EW)	m3	
	Walling ; circular ; all cutting ; templates ; large mean radius			
C	exceeding 250 thick	(EW)	m3	
	Walling built next concrete or brickwork ; projecting bonding stones ; flushing up solid at back with mortar			
D	exceeding 250 thick	(EW)	m3	
	Extra over walling for facing stones ; squared coursed rubble ; courses varying from 150 to 250 high ; roughly squared faces ; 15 thick joints ; flush pointing			
E	average * wide bed ; bonding stones	(EW)	m2	
F	average * wide bed ; bonding stones ; battering faces ; rate of batter 1 in 9	(EW)	m2	
G	average * wide bed ; bonding stones ; circular ; all cutting ; templates ; large mean radius	(EW)	m2	
	Rebates			
H	* girth	(EW)	m	

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STONE MASON

STONE RUBBLE WORK (Cont'd)

Throats

A * girth (EW) m

Local granite ; squared coursed rubble work ; courses varying from 150 to 250 high ; cement mortar joints

Walling

B not exceeding 250 thick ; * thick (EW) m2

Walling ; battering one face ; all cutting ; rate of batter 1 in 9

C not exceeding 250 thick ; * mean thickness (EW) m2

Walling ; circular ; all cutting ; templates ; large mean radius

D not exceeding 250 thick ; * thick (EW) m2

Walling built next concrete or brickwork ; projecting bonding stones ; flushing up solid at back with mortar

E not exceeding 250 thick ; * thick (EW) m2

Walling in skins of hollow walls

F * thick (EW) m2

Projections of attached piers

G * x * (EW) m

Extra over walling for fair face ; roughly squared faces ; 15 thick joints ; flush pointing

H to exposed surfaces (EW) m2

J to exposed surfaces ; circular ; large radius (EW) m2

STONE MASON

STONE RUBBLE WORK (Cont'd)

Forming cavities between skins of hollow walls ; galvanised vertical twist type ties to BS 1243 at * centres horizontally and * centres vertically

A	* wide	(EW)	m2	
---	--------	------	----	--

Grooves

B	* girth	(EW)	m	
---	---------	------	---	--

Rebates

C	* girth	(EW)	m	
---	---------	------	---	--

Throats

D	* girth	(EW)	m	
---	---------	------	---	--

Plinth cappings ; finely squared dressed surface finish ; flush pointing

E	* x * ; sunk weathered ; throated	(EW)	m	
---	-----------------------------------	------	---	--

F	* x * x * stoolings	(EW)	nr	
---	---------------------	------	----	--

Copings ; finely squared dressed surface finish ; flush pointing

G	* x * ; twice weathered ; twice throated	(EW)	m	
---	--	------	---	--

H	* x * x * angles	(EW)	nr	
---	------------------	------	----	--

ASHLAR STONE WORK

Local granite ; finely squared dressed surface finish ; squared back and joint faces ; cement and fine crushed stone mortar (1:3) joints ; flush pointing

Walling

J	* thick	(EW)	m2	
---	---------	------	----	--

STONE MASON

ASHLAR STONE WORK (Cont'd)

	Walling ; circular ; all cutting ; templates ; large mean radius				
A	* thick	(EW)	m2		
	Walling built next concrete or brickwork ; projecting bonding stones ; flushing up solid at back with mortar				
B	* thick	(EW)	m2		
	Walling built next concrete or brickwork ; projecting bonding stones ; flushing up solid at back with mortar ; circular ; all cutting ; templates ; large mean radius				
C	* thick	(EW)	m2		
	Grooves				
D	* girth	(EW)	m		
	Rebates				
E	* girth	(EW)	m		
	Throats				
F	* girth	(EW)	m		
	<u>SUNDRIES</u>				
	<u>Fixings, weep pipes and the like</u>				
	Fixing cramps ; bronze ; fanged both ends ; casting into concrete one end ; building into stonework other end				
G	3 x 40 ; * long	(EW)	nr		
	Dowels ; bronze ; fanged one end ; casting into concrete one end ; building into stonework other end				
H	* diameter x * girth ; twice bent	(EW)	nr		
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SUNDRIES (Cont'd)

Plastic weep pipes ; building into stonework

A * diameter (In Nr. 0) (EW) m

STONE MASON

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To Summary \$

Bill Nr. MODBQ.11

ROOFER

BITUMINOUS EMULSION ROOFING

Wash coat, priming coat and one coat of "bitumen emulsion nr.3" ; glass fibre membrane ; two coats of "bitumen emulsion nr.3" ; finishing surfaces with sand dressing

Horizontal work

A on concrete (EF) m2

Vertical work

B on concrete (EF) m2

Linings to gutters

C * exposed face girth ; on concrete (EF) m

Dishings to channels

D * exposed face girth ; on concrete (EF) m

Coverings to curbs

E * exposed face girth ; on concrete (EF) m

Linings to sumps

F * x * x * ; on concrete (EF) nr

CHINESE TILE ROOFING

Clay roofing tiles ; 225 x 225 plain tiles ; 165 long tapered roll tiles ; single course, single layer ; 50 laps ; bedding and pointing in cement/lime mortar

Sloping work

G on concrete (EF) m2

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CHINESE TILE ROOFING (Cont'd)

A	on timber	(EF)	m2	
B	on concrete ; circular ; large radius	(EF)	m2	
	Vertical work			
C	on timber	(EF)	m2	
	Extra over tiling for			
D	eaves courses	(EF)	m	
E	ridges	(EF)	m	
F	hips	(EF)	m	
G	valleys	(EF)	m	
H	verges	(EF)	m	

SHEET ROOFING AND CLADDING

Colour coated galvanised steel corrugated sheets ; side laps of one and a half corrugations ; 150 end laps ; fixing with galvanised steel hook bolts and nuts, drive screws, large washers, self-tapping screws, roofing bolts, nuts and clips, roofing screws and sheeting clips ; bedding laps with an approved lap sealant

Sloping work ; fixing at 300 centres to purlins spaced at * centres

J	on metal	(EF)	m2	
	Extra over sheeting for			
K	dead lights	(EF)	nr	
L	opening lights	(EF)	nr	
M	transparent plastic sheets	(EF)	nr	
N	ventilator sheets	(EF)	nr	

SHEET ROOFING AND CLADDING

(Cont'd)

A	soaker flange sheets to suit * pipe	(EF)	nr	
	Acessories ; fixing at 300 centres ; on metal			
B	filler pieces at eaves	(EF)	m	
C	closure pieces at jambs	(EF)	m	
D	flashing pieces around openings	(EF)	m	
E	cappings to ridges	(EF)	m	
F	ventilator cappings to ridges	(EF)	m	
G	barge boards, * x * to verges	(EF)	m	
H	expansion joints	(EF)	m	
J	capped ends	(EF)	nr	
K	capped angles	(EF)	nr	
L	roof ventilators ; * diameter ; square base	(EF)	nr	

Colour coated galvanised steel
corrugated sheets ; side laps of
one and a half corrugations ; 75
end laps ; fixing with galvanised
steel hook bolts and nuts, drive
screws, large washers,
self-tapping screws, roofing
bolts, nuts and clips, roofing
screws and sheeting clips ;
bedding laps with an approved lap
sealant

Vertical work ; fixing at 300
centres to sheeting rails spaced
at * centres

M	on metal	(EF)	m2	
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SHEET ROOFING AND CLADDING

(Cont'd)

Acessories ; fixing at 300 centres
; on metal

A	filler pieces at jambs	(EF)	m	
B	closure pieces at jambs	(EF)	m	
C	flashing pieces around openings	(EF)	m	
D	corner pieces, * x * to vertical angles	(EF)	m	
E	expansion joints	(EF)	m	
F	capped ends	(EF)	nr	

PROPRIETARY ROOFING SYSTEMS

Sheet waterproofing material Type
AI ; executed by a sub-contractor
on the List of Accepted Materials
and Approved Supplier of
Materials and Specialist
Contractors for Roofing Systems
(see Appendix *) ; laying in
accordance with manufacturer's
instructions

Horizontal work

G	on concrete	(EF)	m2	
H	on screeds	(EF)	m2	

Sloping work

J	on concrete	(EF)	m2	
K	on screeds	(EF)	m2	

Vertical work

L	on concrete	(EF)	m2	
---	-------------	------	----	--

Skirtings ; at abutments

M	* average exposed face height ; on concrete	(EF)	m	
---	--	------	---	--

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PROPRIETARY ROOFING SYSTEMS
 (Cont'd)

	Linings to gutters				
A	* exposed face girth ; on concrete	(EF)	m		
	Coverings to curbs				
B	* exposed face girth ; on concrete	(EF)	m		
	Linings to sumps				
C	* x * x * ; on concrete	(EF)	nr		
	Cutting, fitting and dressing ; forming collars				
D	outlets	(EF)	nr		
	Cutting, fitting and dressing ; forming collars around				
E	pipes	(EF)	nr		
	<u>Testing</u>				
	Non-destructive test of roofing system ; preparing ; executed by an independent specialist contractor				
F	infrared thermography scanning	(EF)	item		
	<u>BITUMEN FELT BUILT-UP ROOFING</u>				
	<u>Three layer felt roofing ; first two layers of felt ; top layer of fine granual surfaced felt including bonding compound in accordance with manufacturer's recommendations</u>				
	Horizontal work				
G	on concrete	(EF)	m2		
H	on screeds	(EF)	m2		
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BITUMEN FELT BUILT-UP ROOFING
 (Cont'd)

Sloping work			
A	on concrete	(EF)	m2
B	on screeds	(EF)	m2
Turn-downs ; at eaves			
C	* average exposed face height ; on concrete	(EF)	m
Skirtings ; at abutments			
D	* average exposed face height ; on concrete	(EF)	m
Linings to gutters			
E	* exposed face girth ; on concrete	(EF)	m
Coverings to curbs			
F	* exposed face girth ; on concrete	(EF)	m
Linings to sumps			
G	* x * x * ; on concrete	(EF)	nr
Cutting, fitting and dressing ; forming collars around			
H	outlets	(EF)	nr
J	pipes	(EF)	nr

ROOFER

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Bill Nr. MODBQ.12
CARPENTER

STRUCTURAL TIMBERS

Sawn hardwood

Plates

A * x * (FF) m

Bearers

B * x * (FF) m

Bearers ; fixing with screws ;
plugging

C * x * (FF) m

Ceiling joists

D * x * (FF) m

Partitions

E * x * (FF) m

Nogging

F * x * ; between * deep
partition studs (FF) m

Cleats

G * x * x * (FF) nr

Cleats ; fixing with screws ;
plugging

H * x * x * (FF) nr

FILLETS, GROUNDS, BATTENS OR
BRACKETING

Sawn hardwood

Wall battening ; fixing with
screws ; plugging

J * x * x at * centres one way (FF) m2

FILLETS, GROUNDS, BATTENS OR BRACKETING (Cont'd)

A	* x * x at * centres both ways	(FF)	m2	
B	* x * x at * centres one way ; * x * at * centres other way	(FF)	m2	
C	Grounds ; fixing with screws ; plugging * x *	(FF)	m	
D	Battens * x *	(FF)	m	
E	Battens ; fixing with screws ; plugging * x *	(FF)	m	
F	Blocks ; fixing with screws ; plugging * x * x *	(FF)	nr	
<u>BOARDING</u>				
<u>Hardwood</u>				
G	Gangway boarding * thick	(FF)	m2	
H	Gangway boarding ; fixing by bolting (bolts measured separately) * thick	(FF)	m2	
<u>Plywood ; W.B.P. bonded</u>				
J	Roof boarding * thick	(FF)	m2	
K	Roof boarding ; to vertical sides * thick	(FF)	m2	

SHEET LININGS

Insulating board

To walls

A * thick (FF) m2

To ceilings

B * thick (FF) m2

To sides and soffits of beams

C * thick (FF) m2

SUNDRIES

Mild steel ; galvanised

Clips for floor fillets ; fixing
with screws ; plugging

D * x * x * overall ; * thick
metal ; U shaped (FF) nr

CARPENTER

C O L L E C T I O N

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Bill Nr. MODBQ.12 - CARPENTER

To Summary \$



Bill Nr. MODBQ.13

JOINER

FLOORS AND SKIRTINGS

Sawn hardwood

Grounds ; fixing with stainless steel screws ; plugging

A * x * (FF) m

Grounds ; circular ; medium radius ; fixing with stainless steel screws ; plugging

B * x * (FF) m

Hardwood

Skirtings

C * x * ; one labour (FF) m

Skirtings ; circular ; medium radius

D * x * ; one labour (FF) m

Teak

Parquet flooring ; tongued and grooved joints ; secret nailing ; finishing for polishing

E * thick ; * wide boards (FF) m2

Block flooring ; butt joints ; basket pattern ; bedding in cold bitumen/rubber emulsion adhesive ; finishing for polishing

F * thick ; * x * blocks (FF) m2

G extra over * thick block flooring for straight two block border (FF) m

Skirtings

H * x * ; one labour (FF) m

MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.13/1

To Collection \$

FLOORS AND SKIRTINGS (Cont'd)

A	Skirtings ; circular ; medium radius * x * ; one labour	(FF)	m	
B	Skirtings ; fixing with brass screws * x * ; one labour	(FF)	m	
C	Skirtings ; circular ; medium radius ; fixing with brass screws * x * ; one labour	(FF)	m	

DOORS, FRAMES, LININGS AND FINISHINGS

Sawn hardwood

D	Grounds ; fixing with stainless steel screws ; plugging * x *	(ID)	m	
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Hardwood

E	Framed, ledged and braced doors * thick boarding ; * wide boards ; tongued and grooved joints, V jointed one side ; * x * stiles and top rails ; * x * middle and bottom rails ; * x * braces (In Nr. 0)	(ID)	m2	
F	* thick boarding ; * wide boards ; tongued and grooved joints, V jointed one side ; * x * stiles and top rails ; * x * middle and bottom rails ; * x * braces ; one labour on meeting stiles (In Nr. 0)	(ID)	m2	
G	Flush doors ; hollow core ; faced both sides with M.R. plywood ; teak lipping to all edges * thick (In Nr. 0)	(ID)	m2	
H	* thick ; one labour on meeting edges (In Nr. 0)	(ID)	m2	

MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.13/2

To Collection \$

DOORS, FRAMES, LININGS AND FINISHINGS (Cont'd)

A	extra over * thick doors for forming openings * x * for glass ; teak lipping to all edges of opening ; one labour on lipping (ID)	nr	
B	extra over * thick doors for forming openings * x * for teak louvres ; * x * horizontal louvres with two labours ; at * centres ; hardwood lipping to all edges of opening (ID)	nr	
	Flush doors ; hollow core ; faced both sides with teak veneered M.R. plywood ; teak lipping to all edges		
C	* thick (In Nr. 0) (ID)	m2	
D	* thick ; one labour on meeting edges (In Nr. 0) (ID)	m2	
E	extra over * thick doors for forming openings * x * for glass ; teak lipping to all edges of opening ; one labour on lipping (ID)	nr	
F	extra over * thick doors for forming openings * x * for teak louvres ; * x * horizontal louvres with two labours ; at * centres ; teak lipping to all edges of opening (ID)	nr	
	Flush doors ; hollow core ; faced both sides with laminated plastic class HG 1.3 thick bonded to M.R. plywood ; teak lipping to all edges		
G	* thick (In Nr. 0) (ID)	m2	
H	* thick ; one labour on meeting edges (In Nr. 0) (ID)	m2	

DOORS, FRAMES, LININGS AND FINISHINGS (Cont'd)

A	extra over * thick doors for forming openings * x * for glass ; teak lipping to all edges of opening ; one labour on lipping	(ID)	nr	
B	extra over * thick doors for forming openings * x * for teak louvres ; * x * horizontal louvres with two labours ; at * centres ; teak lipping to all edges of opening	(ID)	nr	
	Flush doors ; solid core ; faced both sides with W.B.P. plywood ; teak lipping to all edges			
C	* thick (In Nr. 0)	(ID)	m2	
D	* thick ; one labour on meeting edges (In Nr. 0)	(ID)	m2	
E	extra over * thick doors for forming openings * x * for glass ; teak lipping to all edges of opening ; one labour on lipping	(ID)	nr	
F	extra over * thick doors for forming openings * x * for teak louvres ; * x * horizontal louvres with two labours ; at * centres ; teak lipping to all edges of opening	(ID)	nr	
	Flush doors ; solid core ; faced both sides with teak veneered W.B.P. plywood ; teak lipping to all edges			
G	* thick (In Nr. 0)	(ID)	m2	
H	* thick ; one labour on meeting edges (In Nr. 0)	(ID)	m2	

DOORS, FRAMES, LININGS AND FINISHINGS (Cont'd)

A	extra over * thick doors for forming openings * x * for glass ; teak lipping to all edges of opening ; one labour on lipping	(ID)	nr	
B	extra over * thick doors for forming openings * x * for teak louvres ; * x * horizontal louvres with two labours ; at * centres ; teak lipping to all edges of opening	(ID)	nr	
	Flush doors ; solid core ; faced both sides with laminated plastic class HG 1.3 thick bonded to W.B.P. plywood ; teak lipping to all edges			
C	* thick (In Nr. 0)	(ID)	m2	
D	* thick ; one labour on meeting edges (In Nr. 0)	(ID)	m2	
E	extra over * thick doors for forming openings * x * for glass ; teak lipping to all edges of opening ; one labour on lipping	(ID)	nr	
F	extra over * thick doors for forming openings * x * for teak louvres ; * x * horizontal louvres with two labours ; at * centres ; teak lipping to all edges of opening	(ID)	nr	
	Flush doors ; solid core ; half hour fire resisting ; faced both sides with M.R. plywood ; teak lipping to all edges			
G	* thick (In Nr. 0)	(ID)	m2	
H	extra over * thick doors for forming openings * x * for glass ; teak lipping to all edges of opening ; one labour on lipping	(ID)	nr	

DOORS, FRAMES, LININGS AND FINISHINGS (Cont'd)

Flush doors ; solid core ; half hour fire resisting ; faced both sides with teak veneered M.R. plywood ; teak lipping to all edges

A	* thick (In Nr. 0)	(ID)	m2		
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B	extra over * thick doors for forming openings * x * for glass ; teak lipping to all edges of opening ; one labour on lipping	(ID)	nr		
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Door frames

C	* x *	(ID)	m		
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D	* x * ; one labour	(ID)	m		
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E	* x * ; two labours	(ID)	m		
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F	* x * ; three labours	(ID)	m		
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Door frames ; fixing with brass screws

G	* x *	(ID)	m		
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H	* x * ; one labour	(ID)	m		
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J	* x * ; two labours	(ID)	m		
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K	* x * ; three labours	(ID)	m		
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Door frames ; fixing with brass screws ; plugging

L	* x *	(ID)	m		
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M	* x * ; one labour	(ID)	m		
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N	* x * ; two labours	(ID)	m		
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P	* x * ; three labours	(ID)	m		
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Door frames ; fixing by bolting (bolts measured separately) ; pelleting

Q	* x *	(ID)	m		
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DOORS, FRAMES, LININGS AND FINISHINGS (Cont'd)

Transomes

A	* x * ; two labours	(ID)	m
B	* x * ; four labours	(ID)	m

Linings ; around door openings

C	* x * ; tongued angles	(ID)	m
D	* x * ; tongued angles ; one labour	(ID)	m
E	* x * ; tongued angles ; two labours	(ID)	m

Linings ; around door openings ; fixing with brass screws

F	* x * ; tongued angles	(ID)	m
G	* x * ; tongued angles ; one labour	(ID)	m
H	* x * ; tongued angles ; two labours	(ID)	m

Linings ; around door openings ; fixing with brass screws ; plugging

J	* x * ; tongued angles	(ID)	m
K	* x * ; tongued angles ; one labour	(ID)	m
L	* x * ; tongued angles ; two labours	(ID)	m

Stop fillets

M	* x *	(ID)	m
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Glazing beads

N	* x *	(ID)	m
P	* x * ; one labour	(ID)	m

DOORS, FRAMES, LININGS AND FINISHINGS (Cont'd)

	Glazing beads ; fixing with brass screws and cups				
A	* x *	(ID)	m		
B	* x * ; one labour	(ID)	m		
	Carpet strips ; fixing with brass screws				
C	* x *	(ID)	m		
	Architraves				
D	* x *	(ID)	m		
E	* x * ; one labour	(ID)	m		
	<u>Teak</u>				
	Panelled doors ; in two panels open for glass				
F	* thick ; * x * stiles and top rails ; * x * middle and bottom rails (In Nr. 0)	(ID)	m2		
G	* thick ; * x * stiles and top rails ; * x * middle and bottom rails ; one labour on meeting stiles (In Nr. 0)	(ID)	m2		
	Panelled doors ; in two panels ; one panel open for glass				
H	* thick ; * thick panels ; * x * stiles and top rails ; * x * middle and bottom rails (In Nr. 0)	(ID)	m2		
	Panelled doors ; in two panels				
J	* thick ; * thick panels ; * x * stiles and top rails ; * x * middle and bottom rails (In Nr. 0)	(ID)	m2		
	Door frames ; fixing with brass screws ; pelleting				
K	* x *	(ID)	m		
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DOORS, FRAMES, LININGS AND FINISHINGS (Cont'd)

A	* x * ; one labour	(ID)	m	
B	* x * ; two labours	(ID)	m	
C	* x * ; three labours	(ID)	m	
	Door frames ; fixing with brass screws ; pelleting ; plugging			
D	* x *	(ID)	m	
E	* x * ; one labour	(ID)	m	
F	* x * ; two labours	(ID)	m	
G	* x * ; three labours	(ID)	m	
	Door frames ; fixing by bolting (bolts measured separately) ; pelleting			
H	* x *	(ID)	m	
	Transomes			
J	* x * ; two labours	(ID)	m	
K	* x * ; four labours	(ID)	m	
	Linings ; around door openings ; fixing with brass screws ; pelleting			
L	* x * ; tongued angles	(ID)	m	
M	* x * ; tongued angles ; one labour	(ID)	m	
N	* x * ; tongued angles ; two labours	(ID)	m	
	Linings ; around door openings ; fixing with brass screws ; pelleting ; plugging			
P	* x * ; tongued angles	(ID)	m	
Q	* x * ; tongued angles ; one labour	(ID)	m	

DOORS, FRAMES, LININGS AND FINISHINGS (Cont'd)

A	* x * ; tongued angles ; two labours	(ID)	m	
	Stop fillets			
B	* x *	(ID)	m	
	Glazing beads			
C	* x *	(ID)	m	
D	* x * ; one labour	(ID)	m	
	Glazing beads ; fixing with brass screws and cups			
E	* x *	(ID)	m	
F	* x * ; one labour	(ID)	m	
	Carpet strips ; fixing with brass screws			
G	* x *	(ID)	m	
	Architraves			
H	* x *	(ID)	m	
J	* x * ; one labour	(ID)	m	
	Cover fillets			
K	* x *	(ID)	m	

GLAZED SCREENS

Sawn hardwood

Grounds ; fixing with stainless steel screws ; plugging

L	* x *	(WD)	m	
	<u>Teak</u>			
	Screen frames ; fixing with brass screws ; pelleting			
M	* x * ; one labour	(WD)	m	

GLAZED SCREENS (Cont'd)

Mullions

A	* x * ; two labours	(WD)	m	
B	* x * ; four labours	(WD)	m	

Transomes

C	* x * ; two labours	(WD)	m	
D	* x * ; four labours	(WD)	m	

Cills ; fixing with brass screws ;
pelleting

E	* x * ; one labour	(WD)	m	
F	* x * ; two labours	(WD)	m	

Glazing beads ; fixing with brass
screws and cups

G	* x * ; one labour	(WD)	m	
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Architraves

H	* x * ; one labour	(WD)	m	
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WINDOWS

Sawn hardwood

Grounds ; fixing with stainless
steel screws ; plugging

J	* x *	(WD)	m	
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Hardwood

Casements ; in one pane

K	* thick (In Nr. 0)	(WD)	m2	
---	--------------------	------	----	--

Window frames

L	* x * ; three labours	(WD)	m	
---	-----------------------	------	---	--

Mullions

M	* x * ; six labours	(WD)	m	
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WINDOWS (Cont'd)

Transomes

A * x * ; six labours (WD) m

Glazing beads ; fixing with brass screws and cups

B * x * ; one labour (WD) m

Window boards

C * x * ; two labours (WD) m

Cover fillets

D * x * (WD) m

PIPE CASINGS

Sawn hardwood

Bearers

E * x * (FF) m

Bearers ; fixing with stainless steel screws ; plugging

F * x * (FF) m

Teak

Lippings

G * x * (FF) m

Plywood ; M.R. bonded

Casings ; around pipes

H * x * (FF) m

J extra over pipe casing for access doors ; * x * (FF) nr

Plywood ; M.R. bonded ; faced one side with laminated plastic ; class VG ; 1.5 thick

Casings ; around pipes

K * x * (FF) m

PIPE CASINGS (Cont'd)

A	extra over pipe casing for access doors ; * x *	(FF)	nr	
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LININGS AND CASINGS

Sawn hardwood

Skeleton framed grounds ; fixing
with stainless steel screws ;
plugging

B	* x * at * centres both ways	(FF)	m2	
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C	* x * at * centres one way ; * x * at * centres other way	(FF)	m2	
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Grounds ; fixing with stainless
steel screws ; plugging

D	* x *	(FF)	m	
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Teak

Lippings

E	* x *	(FF)	m	
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Plywood ; M.R. bonded ; teak
veneered one side

Linings ; to walls ; fixing with
brass screws

F	* thick	(FF)	m2	
---	---------	------	----	--

G	* x *	(FF)	m	
---	-------	------	---	--

Casings ; to columns ; fixing with
brass screws

H	* thick	(FF)	m2	
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PANELLED LININGS, CASINGS AND PARTITIONS

Sawn hardwood

Skeleton framed grounds ; fixing with stainless steel screws ; plugging

A	* x * at * centres one way (FF)	m2	
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Grounds ; fixing with stainless steel screws ; plugging

B	* x * (FF)	m	
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Teak

Panelled linings ; in panels raised, moulded and mitred one side ; to walls ; fixing with brass screws ; pelleting

C	* thick ; * thick panels ; * x * stiles, top rails and muntins ; * x * intermediate rails ; * x * bottom rails (FF)	m2	
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D	extra over panelled linings to walls for doors ; * x * ; in * panels ; * x * stops around openings (FF)	nr	
---	---	----	--

Panelled casings ; in panels raised, moulded and mitred one side ; to columns ; fixing with brass screws ; pelleting

E	* thick ; * thick panels ; * x * framing ; * x * intermediate rails ; * x * bottom rails (FF)	m2	
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Applied mouldings

F	* x * ; three labours (FF)	m	
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PELMETS

Hardwood

Lippings

G	* x * (FF)	m	
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PELMETS (Cont'd)

A	* x * ; one labour	(FF)	m	
	Backboards ; fixing with stainless steel screws ; plugging			
B	* x *	(FF)	m	
	Grounds ; fixing by bolting (bolts measured separately)			
C	* x *	(FF)	m	
	<u>Plywood ; M.R. bonded</u>			
	Fascia boards			
D	* x *	(FF)	m	
	<u>RAILS, FILLETS, BACKBOARDS AND THE LIKE</u>			
	<u>Sawn hardwood</u>			
	Grounds ; fixing with stainless steel screws ; plugging			
E	* x *	(FF)	m	
	<u>Hardwood</u>			
	Picture rails			
F	* x * ; two labours	(FF)	m	
	Dado rails			
G	* x * ; two labours	(FF)	m	
	Hat and coat rails			
H	* x *	(FF)	m	
	Cover fillets ; fixing with brass screws and cups			
J	* x *	(FF)	m	
	Cover boards ; fixing with brass screws and cups			
K	* x *	(FF)	m	

RAILS, FILLETS, BACKBOARDS AND THE LIKE (Cont'd)

	Backboards ; fixing with brass screws ; plugging				
A	* x *	(FF)	m		
	Bearers				
B	* x *	(FF)	m		
	Backboards ; fixing with brass screws ; plugging				
C	* x * x *	(FF)	nr		
	Blocks				
D	* x * x *	(FF)	nr		
	Pegs				
E	* diameter x * long	(FF)	nr		
	<u>Teak</u>				
	Picture rails				
F	* x * ; two labours	(FF)	m		
	Dado rails				
G	* x * ; two labours	(FF)	m		
	Hat and coat rails ; fixing with brass screws ; pelleting ; plugging				
H	* x *	(FF)	m		
	Cover fillets ; fixing with brass screws and cups				
J	* x *	(FF)	m		
	Cover boards ; fixing with brass screws and cups				
K	* x *	(FF)	m		

RAILS, FILLETS, BACKBOARDS AND THE LIKE (Cont'd)

	Backboards ; fixing with brass screws ; pelleting ; plugging				
A	* x *	(FF)	m		
	Bearers ; fixing with brass screws ; pelleting				
B	* x *	(FF)	m		
	Backboards ; fixing with brass screws ; pelleting ; plugging				
C	* x * x *	(FF)	nr		
	Pegs				
D	* diameter x * long	(FF)	nr		
	<u>FITTINGS AND SHELVING</u>				
	<u>Cupboards ; * x * x * high ; * nr.</u>				
	Sawn hardwood				
E	* x * bearers	(FF)	m		
F	* x * grounds ; fixing with stainless steel screws ; plugging	(FF)	m		
G	* x * x * blocks ; triangular	(FF)	nr		
	Hardwood				
H	* thick flush doors ; hollow core ; faced both sides with M.R. plywood ; hardwood lipping to all edges (In Nr. 0)	(FF)	m2		
J	* x * stop fillets	(FF)	m		
K	* x * lippings	(FF)	m		
L	* x * framing	(FF)	m		
M	* x * bearers	(FF)	m		

FITTINGS AND SHELVING (Cont'd)

A	* x * x * drawers ; * thick front ; * thick back and sides ; * thick M.R. plywood bottom ; * x * runners ; dovetailing, framing and housing together	(FF)	nr	
	Teak			
B	* x * lippings	(FF)	m	
C	* x * skirtings ; one labour ; fixing with brass screws ; pelleting ; plugging	(FF)	m	
	Plywood ; M.R. bonded			
D	* thick shelves	(FF)	m2	
E	* thick fronts, backs, sides or divisions	(FF)	m2	
F	* thick bottoms	(FF)	m2	
	Plywood ; M.R. bonded ; teak veneered one side			
G	* thick tops	(FF)	m2	
	<u>Kitchen cupboards ; * x * x * high ; * nr.</u>			
	Sawn hardwood			
H	* x * grounds ; fixing with stainless steel screws ; plugging	(FF)	m	
	Hardwood			
J	* x * stop fillets	(FF)	m	
K	* x * lippings	(FF)	m	
L	* x * framing	(FF)	m	
M	* x * bearers	(FF)	m	
	Teak			
N	* x * lippings	(FF)	m	

FITTINGS AND SHELVING (Cont'd)

A	* x * framing	(FF)	m	
B	* x * x * drawers ; * thick front ; * thick hardwood back and sides ; * thick M.R. plywood bottom ; dovetailing, framing and housing together	(FF)	nr	
	Plywood ; M.R. bonded			
C	* thick fronts, backs, sides or divisions	(FF)	m2	
	Plywood ; M.R. bonded ; faced one side with laminated plastic ; class HG 1.3 thick			
D	* thick doors ; teak lipping to all edges (In Nr. 0)	(FF)	m2	
E	* thick shelves	(FF)	m2	
F	* thick work-tops	(FF)	m2	
G	* thick bottoms	(FF)	m2	
	Plywood ; M.R. bonded ; faced one side with laminated plastic ; class VG 1.3 thick			
H	* thick fronts, backs, sides or divisions	(FF)	m2	
	<u>Kitchen wall cupboards ; * x * x * high ; * nr.</u>			
	Sawn hardwood			
J	* x * grounds ; fixing with stainless steel screws ; plugging	(FF)	m	
	Hardwood			
K	* x * lippings	(FF)	m	
L	* x * bearers	(FF)	m	
	Teak			
M	* x * fixing beads	(FF)	m	

FITTINGS AND SHELVING (Cont'd)

A	* x * lippings	(FF)	m	
B	* x * framing ; one labour	(FF)	m	
	Plywood ; M.R. bonded			
C	* thick fronts, backs, sides or divisions	(FF)	m2	
	Plywood ; M.R. bonded ; faced one side with laminated plastic ; class HG 1.5 thick			
D	* thick doors ; teak lipping to all edges (In Nr. 0)	(FF)	m2	
E	* thick shelves	(FF)	m2	
F	* thick tops	(FF)	m2	
	Plywood ; M.R. bonded ; faced one side with laminated plastic ; class VG 1.3 thick			
G	* thick fronts, backs, sides or divisions	(FF)	m2	
	Plywood ; M.R. bonded ; faced both sides with laminated plastic ; class HG 1.5 thick			
H	* thick bottoms	(FF)	m2	
	<u>Notice boards ; * x * ; * nr.</u>			
	Sawn hardwood			
J	* x * grounds ; fixing with stainless steel screws ; plugging	(FF)	m	
	Hardwood			
K	* x * grounds ; fixing with stainless steel screws ; plugging	(FF)	m	
	Teak			
L	* x * grounds ; fixing with stainless steel screws ; plugging	(FF)	m	

FITTINGS AND SHELVING (Cont'd)

Hardboard ; tempered

A	* thick notice boards	(FF)	m2	
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Insulating board

B	* thick notice boards	(FF)	m2	
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Shelving

Sawn hardwood

C	* x * grounds ; fixing with stainless steel screws ; plugging	(FF)	m	
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Hardwood

D	slatted shelving ; * x * slats at * centres ; fixing with stainless steel screws	(FF)	m2	
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E	* thick shelves ; cross-tongued joints ; fixing with stainless steel screws	(FF)	m2	
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F	* x * shelves ; fixing with stainless steel screws	(FF)	m	
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G	* x * lippings	(FF)	m	
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H	* x * framing	(FF)	m	
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J	* x * bearers	(FF)	m	
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Teak

K	* thick shelves ; cross-tongued joints ; fixing with brass screws ; pelleting	(FF)	m2	
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L	* x * shelves ; fixing with brass screws ; pelleting	(FF)	m	
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M	* x * lippings	(FF)	m	
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N	* x * framing	(FF)	m	
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P	* x * bearers	(FF)	m	
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FITTINGS AND SHELVING (Cont'd)

Plywood ; M.R. bonded

A	* thick shelves	(FF)	m2	
B	* x * shelves	(FF)	m	
Plywood ; M.R. bonded ; faced one side with laminated plastic ; class HG 1.5 thick				
C	* thick shelves	(FF)	m2	
D	* x * shelves	(FF)	m	

STAIRCASES

Staircases

Teak

E	* thick treads ; cross-tongued joints ; fixing with brass screws ; pelleting ; plugging	(FF)	m2	
F	* x * handrails ; three labours ; fixing with stainless steel screws	(FF)	m	
G	extra over * x * handrails for wreaths including heading joints	(FF)	nr	
H	extra over * x * handrails for quadrants including heading joints	(FF)	nr	

SUNDRIES

Sundry items

Foam rubber strips ; around edges of block flooring

J	* x *	(FF)	m	
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Bill Nr. MODBQ.13 - JOINER

To Summary

☞

Bill Nr. MODBQ.14
IRONMONGER

IRONMONGERY

Collecting from Government
Logistic Centres and FIXING ONLY

Hinges

A	butt hinges ; 63 x 35	(ID)	nr
B	butt hinges ; 76 x 41	(ID)	nr
C	butt hinges ; 76 x 48	(ID)	nr
D	butt hinges ; 102 x 76	(ID)	nr
E	parliament hinges ; 102 x 152	(ID)	nr
F	spring hinges ; single action	(ID)	nr

Bolts

G	barrel bolts ; 75	(ID)	nr
H	barrel bolts ; 100	(ID)	nr
J	barrel bolts ; 150	(ID)	nr
K	barrel bolts ; 250	(ID)	nr
L	flush bolts ; lever type ; 150	(ID)	nr
M	flush bolts ; lever type ; 250	(ID)	nr
N	lavatory indicating bolts	(ID)	nr

Door and drawer handles

P	pull handles ; 200	(ID)	nr
Q	pull handles ; 300	(ID)	nr
R	bow handles ; 150	(ID)	nr
S	wardrobe handles ; 150	(ID)	nr

IRONMONGERY (Cont'd)

A	drawer pulls ; 100	(ID)	nr
B	flush pulls ; 100 x 52	(ID)	nr
C	combined cylinder ring and door pulls ; 75 x 45	(ID)	nr
Locks and latch fittings			
D	mortice locks ; horizontal	(ID)	nr
E	mortice locks ; upright	(ID)	nr
F	mortice locks ; upright ; dead	(ID)	nr
G	mortice locks ; upright ; dead ; rebated forend	(ID)	nr
H	mortice locks ; upright ; with thumb-turn	(ID)	nr
J	mortice latches ; horizontal	(ID)	nr
K	mortice latches ; upright ; cylinder	(ID)	nr
L	cylinder rim night latches	(ID)	nr
M	cylinder mortice night latches	(ID)	nr
N	drawer locks	(ID)	nr
Lock and latch furniture			
P	single knob furniture	(ID)	nr
Q	set of knob furniture	(ID)	nr
R	set of lever handles	(ID)	nr
S	keyhole escutcheons	(ID)	nr
Door fittings			
T	finger plates ; 330 x 82	(ID)	nr
U	cabin hooks ; 150	(ID)	nr
V	cabin hooks ; 250	(ID)	nr

IRONMONGERY (Cont'd)

A	cabin hooks ; double hinged ; 150	(ID)	nr	
B	door chains and keeps	(ID)	nr	
C	bale catches	(ID)	nr	
D	inspection lenses ; wide angle	(ID)	nr	
E	rubber door stops	(ID)	nr	
F	rubber door stops ; for concrete	(ID)	nr	
Cupboard fittings				
G	cupboard catches	(FF)	nr	
H	bale catches	(FF)	nr	
J	magnetic door catches ; small	(FF)	nr	
K	magnetic door catches ; large	(FF)	nr	
Door closers				
L	overhead door closers	(ID)	nr	
M	floor springs ; single action ; setting boxes in floor ; filling with hydraulic fluid	(ID)	nr	
N	floor springs ; double action ; setting boxes in floor ; filling with hydraulic fluid	(ID)	nr	
Hat and coat hooks				
P	coat hooks	(ID)	nr	
Q	coat hooks ; with rubber buffer	(ID)	nr	
R	hat and coat hooks	(ID)	nr	

IRONMONGERY (Cont'd)

SUPPLYING AND FIXING ironmongery

Door fittings

A kick plates ; satin finish
stainless steel ; * x * x *
thick (ID) nr

B kick plates ; satin anodised
aluminium ; * x * x * thick (ID) nr

Curtain tracks

C curtain tracks ; regular duty ;
enamelled steel C section ;
brackets at * (maximum)
centres ; end stops ; centre
overlap sets ; * nylon runners
per metre ; cord operating (FF) m

Signs and lettering

D letters or numerals ; plastic ;
* high (ID) nr

E chinese characters ; plastic ;
* high (ID) nr

SUPPLYING AND FIXING ironmongery ;
*

Locks and latch fittings

F mortice locks ; horizontal ;
ref * (ID) nr

G mortice latches ; horizontal ;
ref * (ID) nr

Lock and latch furniture

H set of lever handles ; for
mortice locks ; ref * (ID) nr

Sliding door gear

J top tracks ; galvanised steel ;
U section ; ref * (ID) m

K floor channels ; galvanised
steel ; U section ; ref * (ID) m

IRONMONGERY (Cont'd)

A	track brackets ; ref *	(ID)	nr	
B	track brackets ; end ; ref *	(ID)	nr	
C	wheel hangers ; ref *	(ID)	nr	
D	bottom roller guides ; ref *	(ID)	nr	

SUNDRIES

Sundry items

Mosquito gauze

E	plastic covered glass fibre 7 x 7 mesh per 10 square millimetres ; fixing with wood beads (beads measured separately)	(WD)	m2	
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Plastic handrails ; as *

F	fixing over * x * steel core rail (measured separately) ; including welding joints, ends, bends, ramps, wreaths and quadrants	(FF)	m	
---	---	------	---	--

Shower curtain rails ; tubular ; chromium plated brass ; fixing to * by plugging and screwing with stainless steel screws

G	* diameter	(FF)	m	
---	------------	------	---	--

H	extra over curtain rails for end flange plates	(FF)	nr	
---	--	------	----	--

Hanging rails ; tubular ; chromium plated brass ; fixing to * by plugging and screwing with stainless steel screws

J	* diameter	(FF)	m	
---	------------	------	---	--

K	extra over hanging rails for centre hanging brackets ; * drop	(FF)	nr	
---	---	------	----	--

SUNDRIES (Cont'd)

A	Water bars ; galvanised mild steel ; bedding in waterproofing cement mortar * x *	(WD)	m
B	Dowels ; galvanised mild steel ; bedding in cement mortar 16 diameter x 75 long	(ID)	nr
C	Fixing cramps ; galvanised mild steel 30 x 3 x 250 girth ; once bent ; twice holed ; fanged end	(ID)	nr
D	Expansion bolts ; bolt projecting type ; galvanised mild steel * diameter x * long	(ID)	nr
E	Timber connectors ; galvanised mild steel ; * type * diameter ; fixing by bolting (bolts) measured separately	(WD)	nr

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Bill Nr. MODBQ.14 - IRONMONGER

To Summary \$

Bill Nr. MODBQ.15
STEEL AND METALWORKER

STRUCTURAL STEEL WORK

Steel structure ; steel to BS 4360
grade * ; * m2 approximate plan
area ; * storeys ; * overall
height above ground level ;
welded and bolted fabrication

Plain stanchions ; In nr. *

A	* x * x * kg universal columns (FF)	kg		
---	--	----	--	--

B	* x * x * kg universal columns ; 9.00 - 10.50m long (FF)	kg		
---	--	----	--	--

Plain girders ; In nr. *

C	* x * x * kg universal beams (FF)	kg		
---	--------------------------------------	----	--	--

D	* x * x * kg universal beams ; 9.00 - 10.50m long (FF)	kg		
---	--	----	--	--

E	* x * x * kg channels (FF)	kg		
---	-------------------------------	----	--	--

Compound stanchions ; In nr. *

F	* x * x * kg universal columns (FF)	kg		
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G	* x * x * kg universal columns ; 9.00 - 10.50m long (FF)	kg		
---	--	----	--	--

H	* x * x * kg channels (FF)	kg		
---	-------------------------------	----	--	--

J	* x * x * kg tees (FF)	kg		
---	---------------------------	----	--	--

K	* x * x * kg angles (FF)	kg		
---	-----------------------------	----	--	--

L	* thick plates (FF)	kg		
---	------------------------	----	--	--

Compound girders ; In nr. *

M	* x * x * kg universal beams (FF)	kg		
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N	* x * x * kg universal beams ; 9.00 - 10.50m long (FF)	kg		
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MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.15/1

To Collection \$	
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STEEL AND METALWORKER

STRUCTURAL STEEL WORK (Cont'd)

A	* x * x * kg channels	(FF)	kg	
B	* x * x * kg tees	(FF)	kg	
C	* x * x * kg angles	(FF)	kg	
D	* thick plates	(FF)	kg	
Connections, caps and bases				
E	* x * x * kg tees ; in cleats	(FF)	kg	
F	* x * x * kg angles ; in brackets	(FF)	kg	
G	* thick plates ; in packing pieces	(FF)	kg	
H	* thick plates ; in stiffeners	(FF)	kg	
J	* thick plates ; in splice-plates	(FF)	kg	
Wedging under stanchion bases				
K	* x * base plates	(FF)	nr	
Rolled hollow sections				
L	columns ; * diameter x * kg circular hollow section ; * long ; * diameter x * thick end plates ; * kg approximate weight	(FF)	nr	
Bolts ; nuts and washers				
M	* diameter (In Nr. 0)	(FF)	kg	
Holding down bolts ; nuts and plate washers				
N	* diameter x * long	(FF)	nr	

STRUCTURAL STEEL WORK (Cont'd)

Steel work not forming the major part of the structure ; mild steel to BS 4360 grade * ; bearing level 3.00 - 6.00m above ground level ; welded and bolted fabrication

Plain girders ; In nr. *

A	* x * x * kg universal beams	(FF)	kg	
B	* x * x * kg joists	(FF)	kg	
C	* x * x * kg channels	(FF)	kg	
Connections, caps and bases				
D	* x * x * kg angles ; in cleats	(FF)	kg	
E	* thick plates ; in packing pieces	(FF)	kg	
F	* thick plates ; in gussets	(FF)	kg	
Bolts ; nuts and washers				
G	* diameter (In Nr. 0)	(FF)	kg	
Expansion bolts ; bolt projecting type				
H	* diameter x * long	(FF)	nr	

Testing

Welds

J	inspecting, interpreting and testing by an approved independent testing firm in accordance with G.S. for Building	(FF)	item	
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STEEL AND METALWORKER

STEEL TO BS 4360 ; GRADE *

Framed ventilators ; overall size
* x * ; welded connections ; In
nr. *

Framing

A flats ; * x * (WD) kg

B angles ; * x * x * (WD) kg

Louvre blades ; twice cranked

C flats ; * x * (WD) kg

Fixing lugs

D bars ; * diameter (In Nr. 0) (WD) kg

E flats ; * x * (In Nr. 0) (WD) kg

F fanged ends (WD) nr

Wire mesh ; welding

G mesh ; galvanised ; 7 x 7 mesh
per 10 square millimetres (WD) m2

Framed cat ladders ; bolted and
riveted connections ; In nr. *

Stringers

H flats ; * x * (FF) kg

Rungs

J rods ; * diameter (In Nr. 0) (FF) kg

Fixing brackets

K flats ; * x * (In Nr. 0) (FF) kg

L angles ; * x * x * (In Nr. 0) (FF) kg

M fanged ends (FF) nr

MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.15/4

To Collection \$

STEEL AND METALWORKER

STEEL TO BS 4360 ; GRADE *
(Cont'd)

Framed wall mounted handrails ;
welded connections ; to nr. *
staircases

Core rails

A	flats ; * x *	(FF)		kg	
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Hand rails

B	flats ; * x *	(FF)		kg	
---	---------------	------	--	----	--

Wall brackets

C	* diameter x * girth ; once bent ; * diameter x * flange plate ; plugging and screwing ; weighing approximately * kg	(FF)		nr	
---	---	------	--	----	--

Framed balustrades ; welded
connections ; to nr. * staircases

Core rails

D	flats ; * x *	(FF)		kg	
---	---------------	------	--	----	--

E	fanged ends	(FF)		nr	
---	-------------	------	--	----	--

Hand rails

F	flats ; * x *	(FF)		kg	
---	---------------	------	--	----	--

G	fanged ends	(FF)		nr	
---	-------------	------	--	----	--

Bottom rails

H	flats ; * x *	(FF)		kg	
---	---------------	------	--	----	--

J	fanged ends	(FF)		nr	
---	-------------	------	--	----	--

Balusters

K	bars ; * diameter (In Nr. 0)	(FF)		kg	
---	------------------------------	------	--	----	--

L	rods ; * diameter (In Nr. 0)	(FF)		kg	
---	------------------------------	------	--	----	--

M	fanged ends	(FF)		nr	
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MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.15/5

To Collection	\$	
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STEEL AND METALWORKER

STEEL TO BS 4360 ; GRADE *
(Cont'd)

Framed hose reel doors and frames
; overall size * x * ; welded
connections ; In nr. *

Framing

A angles ; * x * x * (WD) kg

B tees ; * x * x * (WD) kg

Beading

C channels ; * x * x * (WD) kg

Fixing lugs

D rods ; * diameter (In Nr. 0) (WD) kg

E fanged ends (WD) nr

Ironmongery

F butt hinges ; * x * (WD) nr

G pull handles ; * diameter ; *
 girth ; twice bent ;
 approximate total weight * (WD) nr

H magnetic door catch ; chromium
 plated satin finish (WD) nr

Framed doors and frames ; overall
size * x * ; * nr. ; overall size
* x * ; * nr. pairs ; welded
connections

Framing

J angles ; * x * x * (WD) kg

Louvre blades ; twice cranked

K flats ; * x * (WD) kg

Stops

L flats ; * x * (WD) kg

MODEL BILL OF DESCRIPTIONS
 ASD STANDARD BILLS MODBQ.15/6

To Collection \$

STEEL AND METALWORKER

STEEL TO BS 4360 ; GRADE *
(Cont'd)

	Fixing lugs			
A	rods ; * diameter (In Nr. 0)	(WD)	kg	
B	fanged ends	(WD)	nr	
	Sheet covering			
C	plate ; * thick	(WD)	m2	
	Wire mesh ; welding			
D	mesh ; galvanised ; 7 x 7 mesh per 10 square millimetres	(WD)	m2	
	Ironmongery			
E	pivot hinges ; two 6 x 150 x 65 plates ; two 25 diameter hardened steel rods 75 long drilled for and including 12 diameter hardened steel pin pivot 130 long ; two 3 x 25 diameter brass washers ; 6 diameter tap bolt in top of hinge; approximate total weight *	(WD)	nr	
F	pull handles ; * diameter ; * girth ; twice bent ; approximate total weight *	(WD)	nr	
G	padbolts ; * diameter shoot * long ; 5 x 35 x 100 slotted hasp ; 5 x 35 x 35 holed staple ; * 5 x 35 x 35 holed guides twice chamfered ; approximate total weight *	(WD)	nr	
H	brass padlocks ; 75	(WD)	nr	
	Ironmongery ; FIXING ONLY			
J	standard China Light and Power door lock and set of handles	(WD)	nr	

MODEL BILL OF DESCRIPTIONS
 ASD STANDARD BILLS MODBQ.15/7

To Collection \$

STEEL AND METALWORKER

STEEL TO BS 4360 ; GRADE *
(Cont'd)

Bolts

Black bolts ; nuts and washers

A	* diameter (In Nr. 0)	(WD)		kg	
---	-----------------------	------	--	----	--

Expansion bolts ; loose bolt type

B	* diameter x * long	(WD)		nr	
---	---------------------	------	--	----	--

Expansion bolts ; bolt projecting type

C	* diameter x * long	(WD)		nr	
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Sundries

Straps ; welding to metal both ends

D	flats ; * times bent ; * x * ; * girth (In Nr. 0)	(FF)		kg	
---	--	------	--	----	--

Brackets ; welding to metal one edge

E	angles ; * long (In Nr. 0)	(FF)		kg	
---	----------------------------	------	--	----	--

F	tees ; * long (In Nr. 0)	(FF)		kg	
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Distance pieces ; welding to metal

G	plates ; * x * x * (In Nr. 0)	(FF)		kg	
---	-------------------------------	------	--	----	--

Lifting beams ; bolting to concrete one edge

H	channels ; bolts measured separately ; bearing level * - *m above ground level ; * x * x * (In Nr. 0)	(FF)		kg	
---	---	------	--	----	--

J	joists ; bolts measured separately ; bearing level * - *m above ground level ; * x * x * (In Nr. 0)	(FF)		kg	
---	---	------	--	----	--

STEEL AND METALWORKER

STEEL ; TO BS 4360 ; GRADE * ; GALVANISED

Framed ventilators ; overall size * x * ; welded connections ; In nr. *

Framing

A	flats ; * x *	(WD)	kg	
---	---------------	------	----	--

B	angles ; * x * x *	(WD)	kg	
---	--------------------	------	----	--

Louvre blades ; twice cranked

C	flats ; * x *	(WD)	kg	
---	---------------	------	----	--

Fixing lugs

D	bars ; * diameter (In Nr. 0)	(WD)	kg	
---	------------------------------	------	----	--

E	flats ; * x * (In Nr. 0)	(WD)	kg	
---	--------------------------	------	----	--

F	fanged ends	(WD)	nr	
---	-------------	------	----	--

Wire mesh ; welding

G	mesh ; galvanised ; 7 x 7 mesh per 10 square millimetres	(WD)	m2	
---	--	------	----	--

Framed tubular balustrades ; welded joints ; to *

Balusters

H	tubing ; * nominal bore	(FF)	m	
---	-------------------------	------	---	--

J	fanged ends	(FF)	nr	
---	-------------	------	----	--

CAST IRON

Plates, bars and sections

Floor plates ; chequer ; raised diamond pattern

K	* thick ; fixing by bolting ; weighing approximately * kg/m2	(FF)	m2	
---	--	------	----	--

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.15/9

To Collection \$

STEEL AND METALWORKER

CAST IRON (Cont'd)

Duct covers ; chequer ; raised diamond pattern

A * thick ; * wide ; fixing by bolting ; weighing approximately * kg/m (FF)

Frames for duct covers

B angles ; * x * x * ; * x * x * lugs at * centres ; casting in ; weighing approximately * kg/m (FF)

Gratings and frames

Channel gratings ; in * lengths ; * x * slots at * centres

C * thick ; * wide ; weighing approximately * kg/m (FF)

Frames for channel gratings

D angles ; * x * x * ; * x * x * lugs at * centres ; casting in ; weighing approximately * kg/m (FF)

Collecting from Government Logistic Centres and FIXING ONLY

Manhole covers and frames ; bedding and haunching frame in cement mortar ; sealing cover in grease

E * x * clear opening ; weighing approximately * kg (FF)

STAINLESS STEEL ; GRADE * ; POLISHED FINISH

Framed tubular handrails and balustrades ; welded joints ; to *

Hand rails

F tubing ; * nominal bore ; * thick (FF)

STEEL AND METALWORKER

STAINLESS STEEL ; GRADE * ;
POLISHED FINISH (Cont'd)

A	bends	(FF)	nr	
B	capped ends	(FF)	nr	
	Balusters			
C	tubing ; * nominal bore ; * thick	(FF)	m	
	Wall brackets			
D	* diameter x * girth ; once bent ; * x * x * tap screwed flange plate one end ; * diameter x * flange plate other end ; fanged end ; plugging and screwing	(FF)	nr	
	Flange plates			
E	* diameter x * ; plugging and screwing	(FF)	nr	
	<u>Step irons ; similar to BS 1247</u>			
	Step irons			
F	general purpose pattern ; 100 tail casting into concrete	(FF)	nr	
	<u>BRASS</u>			
	<u>Gratings and frames</u>			
	Channel gratings ; chromium plated ; in * lengths ; * x * slots at * centres			
G	* thick ; * wide	(FF)	m	
	Frames for channel gratings			
H	angles ; * x * x * ; * x * x * lugs at * centres ; casting in	(FF)	m	

STEEL AND METALWORKER

BRASS ; POLISHED FINISH

Mat frames ; brazed connections

Framing ; * x * x * fixing lugs
with fanged end at * centres

A angles ; * x * x * ; overall
size * x * (FF) nr

MANUFACTURED METALWORK

Windows ; steel ; galvanised ;
designing by, obtaining from an
approved manufacturer ; framing,
glazing beads, water bars,
fittings, fixing lugs, brackets,
bolts and ironmongery ;
assembling, jointing, cutting and
pinning lugs ; bedding in mortar
; glazing measured separately ;
as drawing no.*

Windows

B * x * overall ; one fixed light
(WD) nr

C * x * overall ; one fixed light
; one side hung opening light
(WD) nr

D * x * overall ; one fixed light
; one top hung opening light
(WD) nr

E * x * overall ; * fixed lights
; * side hung opening lights ;
* top hung opening lights (WD) nr

Composite windows

F * x * overall ; in nr. *
individual units ; each with
one fixed light ; * coupling
mullions (WD) nr

G * x * overall ; in nr. *
individual units ; each with
one fixed light ; each with
one side hung opening light ;
* coupling mullions (WD) nr

MODEL BILL OF DESCRIPTIONS

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To Collection \$

MANUFACTURED METALWORK (Cont'd)

Glazed screens

A	* x * overall ; * fixed lights ; * top hung opening lights ; one side hung door (WD)	nr	
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Windows and doors ; aluminium ; anodised ; designing by, obtaining from an approved manufacturer ; framing, glazing beads, water bars, fittings, fixing lugs, brackets, bolts and ironmongery ; assembling, jointing, cutting and pinning lugs ; painting backs of frames with one coat of bitumious paint before fixing ; bedding in butyl mastic bedding compound ; glazing measured separately ; as drawing nr.*

Windows

B	* x * overall ; one fixed light (WD)	nr	
---	--------------------------------------	----	--

C	* x * overall ; one fixed light ; one side hung opening light (WD)	nr	
---	--	----	--

D	* x * overall ; one fixed light ; one top hung opening light (WD)	nr	
---	---	----	--

E	* x * overall ; * fixed lights ; * side hung opening lights ; * top hung opening lights (WD)	nr	
---	--	----	--

Composite windows

F	* x * overall ; in nr. * individual units ; each with one fixed light ; * coupling mullions (WD)	nr	
---	--	----	--

G	* x * overall ; in nr. * individual units ; each with one fixed light ; each with one side hung opening light ; * coupling mullions (WD)	nr	
---	--	----	--

MANUFACTURED METALWORK (Cont'd)

Casement doors

A	* x * overall ; side hung	(WD)	nr	
---	---------------------------	------	----	--

Glazed screens

B	* x * overall ; * fixed lights ; * top hung opening lights ; one side hung door	(WD)	nr	
---	---	------	----	--

Louvre frames ; aluminium ; anodised ; framing, clips, weatherstrips, water bars, fittings, fixing lugs, brackets, bolts and ironmongery ; assembling, jointing, cutting and pinning lugs ; painting backs of frames with one coat of bitumious paint before fixing ; bedding in butyl mastic bedding compound ; as drawing nr. *

Louvres

C	* x * overall ; * pairs of clips to receive * wide blades	(WD)	nr	
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Flyscreens ; aluminium ; anodised ; framing brackets and fixings ; plastic covered fibre-glass mosquito gauze ; assembling, jointing and tap screwing ; as drawing nr. *

Flyscreens

D	* x * overall	(WD)	nr	
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MANUFACTURED METALWORK (Cont'd)

Roller shutters and grilles ;
steel ; galvanised ; designing
by, obtaining from an approved
manufacturer ; channel guides,
fixing lugs, brackets, hood
casings , operating and locking
devices and ironmongery ;
assembling, jointing, cutting and
pinning lugs ; bedding guide
channels in cement mortar ; as
drawing nr. *

Roller shutters ; self closing

A * x * overall (WD) nr

Roller shutters ; electrically
operating ; auxiliary manual
override

B * x * overall (WD) nr

Roller shutters ; electrically
operating ; auxiliary manual
override ; one hour fire
resisting ; activating by fusible
link

C * x * overall (WD) nr

MANUFACTURED METALWORK (Cont'd)

Collapsible gates ; steel ;
galvanised ; diamond pattern ;
welded and riveted connections ;
as drawing nr. *

Collapsible gates ; 6 x 50 flat framing to head ; 6 x 50 flat framing to jambs ; ten 12 diameter fixing lugs 50 long, one end welded other end fanged ; 15 x 50 flat framing in top and bottom guides ; eight 15 x 50 flat fixing blocks 100 long at jambs ; pair of 6 x 50 flat vertical end pickets to both edges of gate ; pair of 6 x 25 flat vertical running pickets at 112 centres maximum ; 5 x 20 flat diagonal folding tie bars ; 6 diameter riveted pivot points with brass washers and spacers at 200 centres vertically to tie bars and 400 centres vertically to running pickets ; four 50 diameter x 15 wide ball bearing rollers ; three retaining catches ; catch hook ; two brass pull handles ; lock

A	* x * overall	(WD)	nr	
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Stainless steel ; grade * ;
polished finish

Pressed metal sections ; door surrounds

B	* x * overall * girth * times bent ; fixing with screws	(WD)	nr	
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Slotted steel angles ; self finished ; framed and bolted connections

Angle framing ; bolts, nuts and washers

C	* x * x *	(FF)	m	
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Rubber shoes

D	to end of * x * x * angle	(FF)	nr	
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C O L L E C T I O N

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To Summary		\$

Bill Nr. MODBQ.16
PLASTERER

INTERNALLY

Spatterdash

All surfaces of concrete

A	generally	(IF)		m2	
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Lathing

Wire netting to BS 1485 ;
galvanised 50 minimum side and
end laps ; measured net - allow
for laps

B	floors	(IF)		m2	
---	--------	------	--	----	--

Plain expanded type steel lathing
; galvanised 50 minimum side and
end laps ; measured net - allow
for laps

C	walls and columns	(IF)		m2	
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D	ceilings including sides and soffits of beams	(IF)		m2	
---	--	------	--	----	--

E	flush junctions between dissimilar solid backgrounds ; 300 wide	(IF)		m	
---	---	------	--	---	--

Plasterboard

Walls and columns

F	lath or board * thick	(IF)		m2	
---	-----------------------	------	--	----	--

Ceilings including sides and
soffits of beams

G	lath or board * thick	(IF)		m2	
---	-----------------------	------	--	----	--

H	lath or board * thick ; 3.50 - 5.00m above floor level	(IF)		m2	
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J	lath or board * thick ; 5.00 - 6.50m above floor level	(IF)		m2	
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	To C	ollection	\$	
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INTERNALLY (Cont'd)

Ceilings including sides and soffits of beams ; sloping

A	lath or board * thick	(IF)	m2	
---	-----------------------	------	----	--

Screeds ; one coat ; cement and sand (1:3) ; wood floated finish

Walls and columns

B	* thick ; to receive ceramic tiling	(IF)	m2	
---	-------------------------------------	------	----	--

C	* thick ; to receive glazed tiling	(IF)	m2	
---	------------------------------------	------	----	--

Floors

D	* thick ; to receive ceramic tiling	(IF)	m2	
---	-------------------------------------	------	----	--

E	* thick ; to receive quarry tiling	(IF)	m2	
---	------------------------------------	------	----	--

F	* thick ; to receive terrazzo	(IF)	m2	
---	-------------------------------	------	----	--

G	* thick ; to receive wood blocks	(IF)	m2	
---	----------------------------------	------	----	--

Ceilings including sides and soffits of beams

H	* thick ; to receive glazed tiling	(IF)	m2	
---	------------------------------------	------	----	--

J	* thick ; to receive glazed tiling ; 3.50 - 5.00m above floor level	(IF)	m2	
---	---	------	----	--

Treads and risers

K	* thick ; to receive terrazzo	(IF)	m2	
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All surfaces of fitments and the like

L	* thick ; to receive glazed tiling	(IF)	m2	
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PLASTERER

INTERNALLY (Cont'd)

A	* thick ; to receive terrazzo	(IF)	m2	
	Skirtings			
B	* thick x * high ; to receive ceramic tiling	(IF)	m	
C	* thick x * high ; to receive quarry tiling	(IF)	m	
	Lining to channels			
D	* thick ; * wide x * (average) deep ; to receive quarry tiling	(IF)	m	
E	* thick ; * wide x * (average) deep ; to receive terrazzo	(IF)	m	
	Extra over floor screed * thick			
F	for forming channels ; rectangular ; * wide x * deep	(IF)	m	
G	for filling to recessed duct covers and the like * wide	(IF)	m	
H	for filling to recessed manhole covers and the like * x *	(IF)	nr	
	<u>Screeds ; one coat ; cement and sand (1:3) ; waterproof containing an approved waterproofing admixture mixed under the manufacturer's supervision in strict accordance with their instructions ; wood floated finish</u>			
	Walls and columns			
J	* thick ; to receive glazed tiling	(IF)	m2	
	Floors			
K	* thick ; to receive glazed tiling	(IF)	m2	

INTERNALLY (Cont'd)

Screeds ; cement and sand (1:3) ;
water repellent containing an
approved water-reducing admixture
and with a water/cement ratio of
0.45 ; wood floated finish

Walls and columns

A	* thick ; to receive glazed tiling	(IF)	m2	
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Floors

B	* thick ; to receive glazed tiling	(IF)	m2	
---	------------------------------------	------	----	--

Screeds ; cement and granite fines
(1:3) ; wood floated finish

Walls and columns

C	* thick ; to receive mosaic tiling	(IF)	m2	
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Floors

D	* thick ; to receive mosaic tiling	(IF)	m2	
---	------------------------------------	------	----	--

Ceilings including sides and
soffits of beams

E	* thick ; to receive mosaic tiling	(IF)	m2	
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F	* thick ; to receive mosaic tiling ; 3.50 - 5.00m above floor level	(IF)	m2	
---	---	------	----	--

Treads and risers

G	* thick ; to receive mosaic tiling	(IF)	m2	
---	------------------------------------	------	----	--

All surfaces of fitments and the like

H	* thick ; to receive mosaic tiling	(IF)	m2	
---	------------------------------------	------	----	--

INTERNALLY (Cont'd)

Skirtings

A * thick x * high ; to receive mosaic tiling (IF) m

Lining to channels

B * thick ; * wide x * (average) deep ; to receive mosaic tiling (IF) m

Extra over floor screed * thick

C for forming channels ; rectangular ; * wide x * deep (IF) m

D for filling to recessed duct covers and the like * wide (IF) m

E for filling to recessed manhole covers and the like * x * (IF) nr

Screeds ; cement, sand and coarse aggregate (1:1.5:3) ; steel trowelled finish

Floors

F * thick ; to receive vinyl or linoleum (IF) m2

Extra over floor screed * thick

G for filling to recessed duct covers and the like * wide (IF) m

H for filling to recessed manhole covers and the like * x * (IF) nr

Cement rendering ; wood floated finish

Walls and columns

J * thick (IF) m2

Floors

K * thick (IF) m2

INTERNALLY (Cont'd)

Cement rendering ; steel trowelled finish

Walls and columns

A	* thick	(IF)	m2	
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Ceilings including sides and soffits of beams

B	* thick	(IF)	m2	
---	---------	------	----	--

C	* thick ; 3.50 - 5.00m above floor level	(IF)	m2	
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Soffits of staircases ; sloping

D	* thick	(IF)	m2	
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E	* thick ; 3.50 - 5.00m above floor level	(IF)	m2	
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Cement rendering ; waterproof containing an approved waterproofing admixture mixed under the manufacturer's supervision in strict accordance with their instructions ; steel trowelled finish

Walls and columns

F	* thick	(IF)	m2	
---	---------	------	----	--

Floors

G	* thick	(IF)	m2	
---	---------	------	----	--

Cement rendering ; water repellent containing an approved water-reducing admixture and with a water/cement ratio of 0.45 ; steel trowelled finish

Walls and columns

H	* thick	(IF)	m2	
---	---------	------	----	--

Floors

J	* thick	(IF)	m2	
---	---------	------	----	--

INTERNALLY (Cont'd)

Internal lime plastering ; steel trowelled finish

Walls and columns

A	* thick	(IF)	m2
B	* thick ; circular ; large radius	(IF)	m2
C	* thick ; circular ; medium radius	(IF)	m2
D	* thick ; circular ; small radius	(IF)	m2

Walls and columns ; on lathing

E	* thick	(IF)	m2
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Ceilings including sides and soffits of beams

F	* thick	(IF)	m2
G	* thick ; 3.50 - 5.00m above floor level	(IF)	m2
H	* thick ; 5.00 - 6.50m above floor level	(IF)	m2

Ceilings including sides and soffits of beams ; sloping

J	* thick	(IF)	m2
K	* thick ; 3.50 - 5.00m above floor level	(IF)	m2
L	* thick ; 5.00 - 6.50m above floor level	(IF)	m2

Soffits of staircases ; sloping

M	* thick	(IF)	m2
N	* thick ; 3.50 - 5.00m above floor level	(IF)	m2

INTERNALLY (Cont'd)

Gypsum plastering ; steel
trowelled finish

Walls and columns

A	* thick	(IF)	m2
B	* thick ; circular ; large radius	(IF)	m2
C	* thick ; circular ; medium radius	(IF)	m2
D	* thick ; circular ; small radius	(IF)	m2

Walls and columns ; on lathing

E	* thick	(IF)	m2
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Walls and columns ; on
plasterboard

F	* thick	(IF)	m2
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Ceilings including sides and
soffits of beams

G	* thick	(IF)	m2
H	* thick ; 3.50 - 5.00m above floor level	(IF)	m2
J	* thick ; 5.00 - 6.50m above floor level	(IF)	m2

Ceilings including sides and
soffits of beams ; sloping

K	* thick	(IF)	m2
L	* thick ; 3.50 - 5.00m above floor level	(IF)	m2
M	* thick ; 5.00 - 6.50m above floor level	(IF)	m2

Soffits of staircases ; sloping

N	* thick	(IF)	m2
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INTERNALLY (Cont'd)

A	* thick ; 3.50 - 5.00m above floor level	(IF)	m2	
	<u>Cement and sand finish ; steel trowelled finish</u>			
	Floors			
B	* thick	(IF)	m2	
	Treads and risers			
C	* thick	(IF)	m2	
	Skirtings			
D	* thick x * high ; rounded top edge ; coved bottom edge at junction with paving	(IF)	m	
	Wall strings			
E	* thick x * (average) high ; rounded top edge ; coved bottom edge to profile of treads and risers	(IF)	m	
	Linings to channels			
F	* thick ; * wide x * deep	(IF)	m	
	Extra over * thick finish to floors			
G	for forming channels ; rectangular ; * wide x * deep	(IF)	m	
H	for filling to recessed duct covers and the like * wide	(IF)	m	
J	for filling to recessed manhole covers and the like * x *	(IF)	nr	
	<u>Granolithic Mix Type "A" ; steel trowelled finish</u>			
	Walls and columns			
K	* thick	(IF)	m2	

INTERNALLY (Cont'd)

	Floors				
A	* thick	(IF)	m2		
	Treads and risers				
B	* thick	(IF)	m2		
	All surfaces of fitments and the like				
C	* thick	(IF)	m2		
	Skirtings				
D	* thick x * high ; rounded top edge ; coved bottom edge at junction with paving	(IF)	m		
	Wall strings				
E	* thick x * (average) high ; rounded top edge ; coved bottom edge to profile of treads and risers	(IF)	m		
	Open strings				
F	* thick x * (average) high ; rounded top edge to profile of treads and risers ; 15 x 20 return to soffit	(IF)	m		
	Aprons				
G	* x * to vertical edge of floor or landing ; 15 x 20 return to soffit	(IF)	m		
	Combined curbs and margins				
H	50 x 130 wide curb ; 25 x 50 wide margin	(IF)	m		
J	50 x 130 wide curb ; to profile of treads and risers ; 25 x 50 wide margin to treads ; 20 x 50 wide margin to risers	(IF)	m		
	Linings to channels				
K	* thick ; * wide x * deep	(IF)	m		
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INTERNALLY (Cont'd)

	Extra over * thick granolithic to floors			
A	for forming channels ; rectangular ; * wide x * deep	(IF)	m	
B	for filling to recessed duct covers and the like * wide	(IF)	m	
C	for filling to recessed manhole covers and the like * x *	(IF)	nr	
	<u>Granolithic Mix Type "B" ; rubbed finish</u>			
	Walls and columns			
D	* thick	(IF)	m2	
	Floors			
E	* thick	(IF)	m2	
	Treads and risers			
F	* thick	(IF)	m2	
	All surfaces of fitments and the like			
G	* thick	(IF)	m2	
	Skirtings			
H	* thick x * high ; rounded top edge ; coved bottom edge at junction with paving	(IF)	m	
	Wall strings			
J	* thick x * (average) high ; rounded top edge ; coved bottom edge to profile of treads and risers	(IF)	m	
	Open strings			
K	* thick x * (average) high ; rounded top edge to profile of treads and risers ; 15 x 20 return to soffit	(IF)	m	

INTERNALLY (Cont'd)

	Aprons				
A	* x * to vertical edge of floor or landing ; 15 x 20 return to soffit (IF)		m		
	Combined curbs and margins				
B	50 x 130 wide curb ; 25 x 50 wide margin (IF)		m		
	Linings to channels				
C	* thick ; * wide x * deep (IF)		m		
	Extra over * thick granolithic to floors				
D	for forming channels ; rectangular ; * wide x * deep (IF)		m		
E	for filling to recessed duct covers and the like * wide (IF)		m		
F	for filling to recessed manhole covers and the like * x * (IF)		nr		
	<u>Granolithic Mix Type "C" ; washed finish</u>				
	Walls and columns				
G	* thick (IF)		m2		
	Floors				
H	* thick (IF)		m2		
	Treads and risers				
J	* thick (IF)		m2		
	All surfaces of fitments and the like				
K	* thick (IF)		m2		

INTERNALLY (Cont'd)

Skirtings

A	* thick x * high ; rounded top edge ; coved bottom edge at junction with paving (IF)	m	
---	--	---	--

Wall strings

B	* thick x * (average) high ; rounded top edge ; coved bottom edge to profile of treads and risers (IF)	m	
---	--	---	--

Open strings

C	* thick x * (average) high ; rounded top edge to profile of treads and risers ; 15 x 20 return to soffit (IF)	m	
---	---	---	--

Aprons

D	* x * to vertical edge of floor or landing ; 15 x 20 return to soffit (IF)	m	
---	--	---	--

Combined curbs and margins

E	50 x 130 wide curb ; 25 x 50 wide margin (IF)	m	
---	---	---	--

F	50 x 130 wide curb ; to profile of treads and risers ; 25 x 50 wide margin to treads ; 20 x 50 wide margin to risers (IF)	m	
---	---	---	--

Linings to channels

G	* thick ; * wide x * deep (IF)	m	
---	--------------------------------	---	--

Extra over * thick granolithic to floors

H	for forming channels ; rectangular ; * wide x * deep (IF)	m	
---	---	---	--

J	for filling to recessed duct covers and the like * wide (IF)	m	
---	--	---	--

K	for filling to recessed manhole covers and the like * x * (IF)	nr	
---	--	----	--

INTERNALLY (Cont'd)

Terrazzo Mix Type "A" ; white colour ; ground smooth finish

Floors

A * thick (IF) m2

Treads and risers

B * thick (IF) m2

Skirtings

C * thick x * high ; rounded top edge ; coved bottom edge at junction with paving (IF) m

Wall strings

D * thick x * (average) high ; rounded top edge ; coved bottom edge to profile of treads and risers (IF) m

Open strings

E * thick x * (average) high ; rounded top edge to profile of treads and risers ; 15 x 20 return to soffit (IF) m

Aprons

F * x * to vertical edge of floor or landing ; 15 x 20 return to soffit (IF) m

Combined curbs and margins

G 50 x 130 wide curb ; 25 x 50 wide margin (IF) m

H 50 x 130 wide curb ; to profile of treads and risers ; 25 x 50 wide margin to treads ; 20 x 50 wide margin to risers (IF) m

Linings to channels

J * thick ; * wide x * deep (IF) m

INTERNALLY (Cont'd)

	Extra over * thick terrazzo to floors			
A	for forming channels ; rectangular ; * wide x * deep	(IF)	m	
B	for filling to recessed duct covers and the like * wide	(IF)	m	
C	for filling to recessed manhole covers and the like * x *	(IF)	nr	
<u>Terrazzo Mix Type "A" ; white colour ; wax polished finish</u>				
Walls and columns				
D	* thick	(IF)	m2	
All surfaces of fitments and the like				
E	* thick	(IF)	m2	
<u>Terrazzo Mix Type "B" ; green colour ; ground smooth finish</u>				
Floors				
F	* thick	(IF)	m2	
Treads and risers				
G	* thick	(IF)	m2	
Skirtings				
H	* thick x * high ; rounded top edge ; coved bottom edge at junction with paving	(IF)	m	
Wall strings				
J	* thick x * (average) high ; rounded top edge ; coved bottom edge to profile of treads and risers	(IF)	m	

INTERNALLY (Cont'd)

Open strings

A	* thick x * (average) high ; rounded top edge to profile of treads and risers ; 15 x 20 return to soffit (IF)	m
---	--	---

Aprons

B	* x * to vertical edge of floor or landing ; 15 x 20 return to soffit (IF)	m
---	--	---

Combined curbs and margins

C	50 x 130 wide curb ; 25 x 50 wide margin (IF)	m
---	--	---

D	50 x 130 wide curb ; to profile of treads and risers ; 25 x 50 wide margin to treads ; 20 x 50 wide margin to risers (IF)	m
---	--	---

Linings to channels

E	* thick ; * wide x * deep (IF)	m
---	--------------------------------	---

Extra over * thick terrazzo to
floors

F	for forming channels ; rectangular ; * wide x * deep (IF)	m
---	---	---

G	for filling to recessed duct covers and the like * wide (IF)	m
---	---	---

H	for filling to recessed manhole covers and the like * x * (IF)	nr
---	---	----

Terrazzo Mix Type "B" ; green
colour ; wax polished finish

Walls and columns

J	* thick (IF)	m2
---	--------------	----

All surfaces of fitments and the
like

K	* thick (IF)	m2
---	--------------	----

INTERNALLY (Cont'd)

Vitrified ceramic floor tiles ; *
x * x * ; Messrs. * ; * series ;
anti-slip ; * colour range

Tiles ; bedding and jointing in
 cement and sand (1:3) bedding to
 the stated thicknesses ; pointing
 in coloured cement

A	floors ; on * bedding	(IF)	m2
B	treads and risers ; on * bedding	(IF)	m2
C	extra over tiles for rounded edge tiles	(IF)	m
D	extra over tiles for tiles rounded on two edges	(IF)	nr
E	skirtings * high ; rounded top edge ; coved bottom edge at junction with paving ; on * bedding	(IF)	m
F	purpose made fittings ; angles ; on skirting * high	(IF)	nr
G	linings to channels * wide x * deep ; on * bedding	(IF)	m
Extra over tiles to floors			
H	for coloured bands ; * wide	(IF)	m
J	for forming channels ; rectangular ; * wide x * deep	(IF)	m
K	for filling to recessed duct covers and the like * wide ; joints to line with adjoining work	(IF)	m
L	for filling to recessed manhole covers and the like * x * ; joints to line with adjoining work	(IF)	nr

INTERNALLY (Cont'd)

Clay floor quarry tiles ; * x * x
* ; anti-slip ; buff colour

Tiles ; bedding and jointing in
cement and sand (1:3) bedding to
the stated thicknesses ; pointing
in coloured cement

A	floors ; on * bedding	(IF)	m2
B	treads and risers ; on * bedding	(IF)	m2
C	extra over tiles for rounded edge tiles	(IF)	m
D	extra over tiles for tiles rounded on two edges	(IF)	nr
E	skirtings * high ; rounded top edge ; coved bottom edge at junction with paving ; on * bedding	(IF)	m
F	purpose made fittings ; angles ; on skirting * high	(IF)	nr
G	linings to channels * wide x * deep ; on * bedding	(IF)	m
Extra over tiles to floors			
H	for coloured bands ; * wide	(IF)	m
J	for filling to recessed duct covers and the like * wide ; joints to line with adjoining work	(IF)	m
K	for filling to recessed manhole covers and the like * x * ; joints to line with adjoining work	(IF)	nr

INTERNALLY (Cont'd)

Vinyl floor tiles ; * x * x * ;
Messrs. * ; * colour range ; *
series ; emulsion polished finish
; laying and fixing in accordance
with manufacturers' instructions

Tiles ; fixing with adhesive

A	floors	(IF)	m2
B	treads and risers	(IF)	m2
C	skirtings * high ; rounded top edge ; coved bottom edge at junction with paving	(IF)	m
D	purpose made fittings ; angles ; on skirting * high	(IF)	nr
Extra over tiles to floors			
E	for coloured bands ; * wide	(IF)	m
F	for filling to recessed duct covers and the like * wide ; joints to line with adjoining work	(IF)	m
G	for filling to recessed manhole covers and the like * x * ; joints to line with adjoining work	(IF)	nr

Glazed ceramic wall tiles ; * x *
x * ; cushion edged ; white
colour

Tiles ; bedding and jointing in cement and sand (1:3) bedding to the stated thicknesses ; pointing in coloured grout

H	walls and columns ; on * bedding	(IF)	m2
J	ceilings including sides and soffits of beams ; on * bedding	(IF)	m2

INTERNALLY (Cont'd)

A	ceilings including sides and soffits of beams ; on * bedding ; 3.50 - 5.00m above floor level	(IF)	m2
B	all surfaces of fitments and the like ; on * bedding	(IF)	m2
C	extra over tiles for rounded edge tiles	(IF)	m
D	extra over tiles for tiles rounded on two edges	(IF)	nr
<u>Unglazed vitreous mosaic tiles ; * x * x * ; Messrs. * ; * series ; * colour range</u>			
Tiles ; bedding and jointing in cement and granite fines (1:3) bedding to the stated thicknesses ; pointing in coloured cement			
E	walls and columns	(IF)	m2
F	ceilings including sides and soffits of beams ; on * bedding	(IF)	m2
G	floors ; on * bedding	(IF)	m2
H	treads and risers ; on * bedding	(IF)	m2
J	all surfaces of fitments and the like ; on * bedding	(IF)	m2
K	extra over tiles for rounded edge tiles	(IF)	m
L	extra over tiles for coved tiles	(IF)	m
M	extra over tiles for setting one row of tiles on splay at angles	(IF)	m
N	skirtings * high ; square top edge ; coved bottom edge at junction with paving ; on * bedding	(IF)	m

INTERNALLY (Cont'd)

A	skirtings * high ; square top edge ; splayed bottom edge at junction with paving ; on * bedding (IF)	m
B	wall strings * (average) high ; square top edge ; coved bottom edge to profile of treads and risers ; on * bedding (IF)	m
C	wall strings * (average) high ; square top edge ; splayed bottom edge to profile of treads and risers ; on * bedding (IF)	m
D	linings to channels * wide x * deep ; on * bedding (IF)	m
E	Extra over tiles to walls and columns for coloured bands ; * wide (IF)	m
F	Extra over tiles to floors for coloured bands ; * wide (IF)	m
G	for forming channels ; rectangular ; * wide x * deep (IF)	m
H	for filling to recessed duct covers and the like * wide ; joints to line with adjoining work (IF)	m
J	for filling to recessed manhole covers and the like * x * ; joints to line with adjoining work (IF)	nr
K	<u>Vitreous clay ; * x * x * non slip nosing tiles</u> Tiles ; bedding and jointing in cement and sand (1:3) bedding to the stated thicknesses ; pointing in plain cement to treads ; on * bedding (IF)	m

INTERNALLY (Cont'd)

Tiles ; bedding and jointing in cement and granite fines (1:3) bedding to the stated thicknesses ; pointing in coloured cement

A	to treads ; on * bedding	(IF)	m	
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Suspended ceilings ; * x * x * tegular edge fissured mineral fibre tiles ; as * ; laid in and including metal support framing comprising exposed grid of anodised aluminium T-section framing , metal hangers, brackets, ties, clips and fasteners, etc.

Ceilings

B	fixing to concrete soffits ; drop length *	(IF)	m2	
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C	fixing to concrete soffits ; drop length * ; 3.50 - 5.00m above floor level	(IF)	m2	
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D	fixing to concrete soffits ; drop length * ; 5.00 - 6.50m above floor level	(IF)	m2	
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Ceilings ; sloping

E	fixing to concrete soffits ; drop length *	(IF)	m2	
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F	fixing to concrete soffits ; drop length * ; 3.50 - 5.00m above floor level	(IF)	m2	
---	---	------	----	--

G	fixing to concrete soffits ; drop length * ; 5.00 - 6.50m above floor level	(IF)	m2	
---	---	------	----	--

Bulkheads

H	fixing vertically	(IF)	m2	
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Anodised aluminium accessories

J	perimeter trim	(IF)	m	
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INTERNALLY (Cont'd)

A	perimeter trim ; circular ; medium radius	(IF)	m	
	Extra over ceiling tiles for forming openings			
B	grilles ; * x *	(IF)	nr	
C	diffusers ; * x *	(IF)	nr	
D	access panels ; * x *	(IF)	nr	
<u>Sundries</u>				
	Treating surfaces of cement rendering with an approved liquid dust proof sealer ; in accordance with the manufacturer's instructions			
E	walls and cloumns	(IF)	m2	
	Treating surfaces of cement and sand finish with an approved liquid hardener ; in accordance with the manufacturer's instructions			
F	floors	(IF)	m2	
	Treating surfaces of granolithic with carborundum grains ; sprinkling on and lightly trowelling in before setting at the rate of 2 kg/m2			
G	treads and risers	(IF)	m2	
	Brass dividing strips ; bedding in screed			
H	3 x 50	(IF)	m	
	Brass dividing strips ; bedding in screed ; stepped to profile of treads and risers			
J	* x *	(IF)	m	

INTERNALLY (Cont'd)

Brass dividing strips ; bedding in wall finish

A	* x *	(IF)	m	
---	-------	------	---	--

Non slip inserts to treads ; rounded top edge ; bedding in groove

B	15 x 25	(IF)	m	
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Bedding wood frames and cills

C	to concrete	(IF)	m	
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EXTERNALLY

Spatterdash

All surfaces of concrete

D	generally	(EF)	m2	
---	-----------	------	----	--

Screeds ; one coat ; cement and granite fines (1:3) ; wood float finish

Walls and columns

E	* thick ; to receive mosaic tiling	(EF)	m2	
---	------------------------------------	------	----	--

Floors

F	* thick ; to receive mosaic tiling	(EF)	m2	
---	------------------------------------	------	----	--

Ceilings including sides and soffits of beams

G	* thick ; to receive mosaic tiling	(EF)	m2	
---	------------------------------------	------	----	--

H	* thick ; to receive mosaic tiling ; 3.50 - 5.00m above floor level	(EF)	m2	
---	---	------	----	--

Treads and risers

J	* thick ; to receive mosaic tiling	(EF)	m2	
---	------------------------------------	------	----	--

EXTERNALLY (Cont'd)

A	Cills, copings, horizontal louvres, horizontal sunbreakers and the like * thick ; to receive mosaic tiling	(EF)	m2
B	Vertical fins, vertical sunbreakers and the like * thick ; to receive mosaic tiling	(EF)	m2
C	Small features and the like * thick ; to receive mosaic tiling	(EF)	m2
<u>Topping screeds ; one coat ; cement and sand (1:4) ; laid monolithically ; steel trowelled finish</u>			
D	Roofs * thick ; to receive asphalt	(EF)	m2
E	Lining to channels * thick ; * wide x * (average) deep ; to receive asphalt	(EF)	m
<u>Lightweight screeds ; one coat ; cement and lightweight aggregate (1:8) ; wood float finish</u>			
F	Roofs * (average) thick ; to receive screed	(EF)	m2
G	Lining to channels * thick ; * wide x * (average) deep ; to receive screed	(EF)	m

EXTERNALLY (Cont'd)

External rendering ; steel
trowelled finish

Walls and columns

A * thick (EF) m2

Ceilings including sides and
soffits of beams

B * thick (EF) m2

C * thick ; 3.50 - 5.00m above
floor level (EF) m2

Soffits of staircases ; sloping

D * thick (EF) m2

E * thick ; 3.50 - 5.00m above
floor level (EF) m2

Cills, copings, horizontal
louvres, horizontal sunbreakers
and the like

F * thick (EF) m2

Vertical fins, vertical
sunbreakers and the like

G * thick (EF) m2

Small features and the like

H * thick (EF) m2

Cement and sand finish ; steel
trowelled finish

Floors

J * thick (EF) m2

Treads and risers

K * thick (EF) m2

EXTERNALLY (Cont'd)

A	Skirtings * thick x * high ; rounded top edge ; coved bottom edge at junction with paving (EF)	m
<u>Granolithic Mix Type "A" ; steel trowelled finish</u>		
B	Walls and columns * thick (EF)	m2
Floors		
C	* thick (EF)	m2
Treads and risers		
D	* thick (EF)	m2
Skirtings		
E	* thick x * high ; rounded top edge ; coved bottom edge at junction with paving (EF)	m
<u>Granolithic Mix Type "B" ; rubbed finish</u>		
F	Walls and columns * thick (EF)	m2
Floors		
G	* thick (EF)	m2
Treads and risers		
H	* thick (EF)	m2
Skirtings		
J	* thick x * high ; rounded top edge ; coved bottom edge at junction with paving (EF)	m

EXTERNALLY (Cont'd)

Granolithic Mix Type "C" ; washed finish

Walls and columns

A * thick (EF) m2

Floors

B * thick (EF) m2

Treads and risers

C * thick (EF) m2

Skirtings

D * thick x * high ; rounded top edge ; coved bottom edge at junction with paving (EF) m

Terrazzo Mix Type "A" ; white colour ; ground smooth finish

Floors

E * thick (EF) m2

Treads and risers

F * thick (EF) m2

Skirtings

G * thick x * high ; rounded top edge ; coved bottom edge at junction with paving (EF) m

Terrazzo Mix Type "B" ; green colour ; ground smooth finish

Floors

H * thick (EF) m2

Treads and risers

J * thick (EF) m2

EXTERNALLY (Cont'd)

Skirtings

A	* thick x * high ; rounded top edge ; coved bottom edge at junction with paving (EF)	m	
---	--	---	--

Clay floor quarry tiles ; * x * x * ; anti-slip ; buff colour

Tiles ; bedding and jointing in cement and sand (1:3) bedding to the stated thicknesses ; pointing in coloured cement

B	floors ; on * bedding (EF)	m2	
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C	treads and risers ; on * bedding (EF)	m2	
---	---------------------------------------	----	--

D	extra over tiles for rounded edge tiles (EF)	m	
---	--	---	--

E	extra over tiles for tiles rounded on two edges (EF)	nr	
---	--	----	--

F	skirtings * high ; rounded top edge ; coved bottom edge at junction with paving ; on * bedding (EF)	m	
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G	purpose made fittings ; angles ; on skirting * high (EF)	nr	
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Concrete roofing tiles ; * x * x * ; smooth finish

Tiles ; bedding loose and jointing in hot bitumen ; pointing in bitumen

H	roofs ; on screed (EF)	m2	
---	------------------------	----	--

EXTERNALLY (Cont'd)

Glazed ceramic mosaic tiles ; * x * x * ; Messrs. * ; * series ; * colour range

Tiles ; bedding and jointing in cement and granite fines (1:3) bedding to the stated thicknesses ; pointing in coloured cement

A	walls and columns ; on * bedding	(EF)	m2	
B	floors ; on * bedding	(EF)	m2	
C	ceilings including sides and soffits of beams ; on * bedding	(EF)	m2	
D	ceilings including sides and soffits of beams ; on * bedding ; 3.50 - 5.00m above floor level	(EF)	m2	
E	treads and risers ; on * bedding	(EF)	m2	
F	cills, copings, horizontal louvres, horizontal sunbreakers and the like ; on * bedding	(EF)	m2	
G	vertical fins, vertical sunbreakers and the like ; on * bedding	(EF)	m2	
H	small features and the like ; on * bedding	(EF)	m2	
J	extra over tiles for rounded edge tiles	(EF)	m	
K	extra over tiles for setting one row of tiles on splay at angles	(EF)	m	
L	extra over tiles for coved tiles	(EF)	m	
	Extra over tiles to walls and columns			
M	for coloured bands ; * wide	(EF)	m	

EXTERNALLY (Cont'd)

Testing

A	allow for provision of infra-red thermographic scanning to external tiling as G.S. for Building Item 18.108 ; remedy any defects ; re-testing (EF)		item	
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Expansion joints to finishes

Forming joints in mosaic finishes ; priming surfaces of joints ; pointing with polysulphide liquid polymer sealant

B	* x * ; horizontal (EF)		m	
---	-------------------------	--	---	--

C	* x * ; vertical (EF)		m	
---	-----------------------	--	---	--

Forming joints in concrete roofing tiles ; pointing with hot bitumen

D	25 x 30 ; horizontal (EF)		m	
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Sundries

Treating surfaces of cement and sand finish with an approved liquid hardener ; in accordance with the manufacturer's instructions

E	floors (EF)		m2	
---	-------------	--	----	--

Treating surfaces of granolithic with carborundum grains ; sprinkling on and lightly trowelling in before setting at the rate of 2 kg/m2

F	treads and risers (EF)		m2	
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Polythene vapour barrier

G	on concrete beneath roof screed (EF)		m2	
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Brass dividing strips ; bedding in wall finish

H	* x * (EF)		m	
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MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.16/31

To Collection \$

EXTERNALLY (Cont'd)

A	Non slip inserts to treads ; rounded top edge ; bedding in groove 15 x 25	(EF)	m	
B	Bedding wood frames and cills to concrete	(EF)	m	
C	Cement and sand (1:3) ; surround to pipes above roof level 150 x 150 x 150	(EF)	nr	
<u>Testing</u>				
D	On site delivery checks ; provide all necessary calibrated equipment and carry out tests as G.S. for Building Item 18.177 on non-slip homogenous floor tiles	(EF)	item	

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C.fwd \$

PLASTERER

C O L L E C T I O N

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Bill Nr. MODBQ.16 - PLASTERER

To Summary \$

Bill Nr. MODBQ.17
PLUMBER

LEAD WORK

Milled lead ; Code No. 4 ; 1.8
thick ; labour

Sleeves ; 150 high ; securing to
tops of pipes with galvanised
screw clips ; pointing with
mastic

A	to suit pipes not exceeding 55 diameter (SV)	nr
B	to suit pipes 55 - 110 diameter (SV)	nr
C	to suit pipes * diameter (SV)	nr
Slates ; 475 x 475 ; perforated for and with collar 75 high soldered on		
D	to suit side roof outlets not exceeding 55 diameter (SV)	nr
E	to suit side roof outlets 55 - 110 diameter (SV)	nr
Slates ; 475 x 475 ; perforated for and with collar 150 high soldered on		
F	to suit pipes not exceeding 55 diameter (SV)	nr
G	to suit pipes 55 - 110 diameter (SV)	nr
H	to suit pipes * diameter (SV)	nr

RAINWATER DISPOSAL

Plastic eaves gutters and fittings ; push-fit joints with rubber or neoprene seals ; fixing with holderbats brackets or pipe clips

Half round gutters ; fixing to walls and columns

A	* diameter	(SV)	m	
---	------------	------	---	--

Extra over gutters for

B	* angles	(SV)	nr	
---	----------	------	----	--

C	* stopped ends	(SV)	nr	
---	----------------	------	----	--

D	* stopped end outlets	(SV)	nr	
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E	* outlets	(SV)	nr	
---	-----------	------	----	--

Plastic pipes and fittings ; push-fit joints with rubber or neoprene seals ; fixing with holderbats brackets or pipe clips

Pipes and fittings ; fixing to walls and columns

F	* diameter	(SV)	m	
---	------------	------	---	--

Pipes and fittings ; fixing to soffits

G	* diameter	(SV)	m	
---	------------	------	---	--

Extra over pipes for

H	* shoes	(SV)	nr	
---	---------	------	----	--

J	* bends	(SV)	nr	
---	---------	------	----	--

K	* x * x * single branch junctions	(SV)	nr	
---	-----------------------------------	------	----	--

L	* x * x * x * double branch junctions	(SV)	nr	
---	---------------------------------------	------	----	--

M	access doors on * pipes	(SV)	nr	
---	-------------------------	------	----	--

N	socket adaptors on * pipes	(SV)	nr	
---	----------------------------	------	----	--

P	* drain adaptors	(SV)	nr	
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MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.17/2

To Collection \$	
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RAINWATER DISPOSAL (Cont'd)

Roof outlets and the like

A	* flat roof outlets ; domical gratings ; vertical spigots	(SV)	nr	
B	* flat roof side outlets ; flat gratings ; horizontal spigots	(SV)	nr	
C	* balcony outlets ; flat gratings ; vertical spigots	(SV)	nr	
Joints to pipes of differing materials				
D	connections of * pipes to cast iron pipes ; caulked lead joints	(SV)	nr	
Pipe sleeves ; PVC ; casting into concrete or building into brickwork				
E	* long to suit * pipe	(SV)	nr	
Pipe sleeves ; galvanised mild steel ; casting into concrete or building into brickwork ; caulking full depth between pipe and sleeve with mineral wool				
F	* long to suit * pipe	(SV)	nr	
Pipe sleeves ; cast iron ; casting into concrete or building into brickwork ; caulking full depth between pipe and sleeve with cold caulking compound ; pointing with mastic sealant both ends				
G	* long to suit * pipe	(SV)	nr	

RAINWATER DISPOSAL (Cont'd)

Pipe sleeves ; cast iron ; puddle flange ; casting into concrete or building into brickwork ; caulking full depth between pipe and sleeve with cold caulking compound ; pointing with mastic sealant one end

A	* long to suit * pipe	(SV)		nr	
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SANITARY FITTINGS

Collecting from Government

Logistic Centres and FIXING ONLY
; assembling ; jointing and bedding ; fixing materials ; plugging ; screwing or bolting ; cutting and pinning

Vitreous china lavatory basins

B	560 x 405 ; taps; waste fittings, plug and chain ; traps ; centre bracket and hangers ; painting	(SV)		nr	
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Fireclay sinks

C	610 x 455 x 255 ; taps ; waste fittings , plug and chain ; traps ; cantilever brackets ; painting	(SV)		nr	
---	---	------	--	----	--

Vitreous enamelled steel baths ; pointing with silicone sealant at junctions with walls

D	1700 x 700 x 380 ; taps ; waste fittings, plug and chain ; traps	(SV)		nr	
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W.C. suites

E	vitreous china W.C. pans ; European ; horizontal outlets ; vitreous china low level cisterns and fittings ; 9 litres ; connectors ; traps ; plastic W.C. seats and covers	(SV)		nr	
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MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.17/4

To C	ollection	\$	
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SANITARY FITTINGS (Cont'd)

Urinals

A	vitreous china urinal bowls ; concealed hangers ; spreaders ; outlet gratings ; waste fittings (SV)	nr
---	--	----

B	vitreous china divisions ; concealed hangers (SV)	nr
---	--	----

C	cisterns ; syphons ; brackets ; petcocks ; 9 litres (SV)	nr
---	---	----

Shower suites

D	chromium plated shower fittings ; type "A" ; exposed riser pipes (SV)	nr
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E	chromium plated shower fittings ; type "B" ; exposed riser pipes (SV)	nr
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F	chromium plated shower fittings ; type "D" ; concealed riser pipes (SV)	nr
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Macerators

G	* x * x * (SV)	nr
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Ancillaries

H	chromium plated waste fittings ; plug, chain and stay ; 32 diameter (SV)	nr
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J	chromium plated waste fittings ; plug, chain and stay ; 38 diameter (SV)	nr
---	--	----

K	chromium plated combined waste and overflow fittings ; plug, chain and stay ; 32 diameter (SV)	nr
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L	chromium plated pillar taps ; screw down ; hot ; 13 diameter (SV)	nr
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SANITARY FITTINGS (Cont'd)

A	chromium plated pillar taps ; self closing ; cold ; 13 diameter	(SV)	nr
B	chromium plated bib taps ; screw down ; cold ; 13 diameter	(SV)	nr
C	plastic bottle traps ; "S" trap ; 38 diameter	(SV)	nr
D	brass "P" traps ; 38 diameter	(SV)	nr
Toilet fittings			
E	chromium plated toilet roll holders	(SV)	nr
F	enamelled lockable toilet roll holders	(SV)	nr
G	chromium plated towel rails ; 25 diameter ; 600 long	(SV)	nr
H	chromium plated towel rails ; locking pattern ; 35 diameter ; 510 long	(SV)	nr
J	chromium plated tumbler and toothbrush holders	(SV)	nr
K	chromium plated washing cream dispensers	(SV)	nr
L	chromium plated shelf brackets ; 125 wide	(SV)	nr
M	chromium plated shelf guard rails ; 535 x 125	(SV)	nr
N	chromium plated robe hooks ; single	(SV)	nr

SANITARY FITTINGS (Cont'd)

SUPPLYING AND FIXING ; assembling ; jointing and bedding ; fixing materials ; plugging ; screwing or bolting ; cutting and pinning

Basins

A vitreous china lavatory basins as * Ref. * ; self rimming ; * x * ; chromium plated pillar taps as * Ref. * ; self closing ; 13 diameter ; chromium plated waste fittings as * Ref. * ; plug and chain ; 32 diameter ; plastic bottle traps as * Ref. * ; painted concealed brackets ; pointing rim with silicone sealant (SV)

nr

Sinks

B fireclay sinks as * Ref. * ; * x * x * ; chromium plated pillar taps as * Ref. * ; self closing ; 13 diameter ; chromium plated waste fittings as * Ref. * ; plug and chain ; 32 diameter ; plastic bottle trap as * Ref. * ; galvanised cantilever brackets (SV)

nr

Baths

C vitreous enamelled steel baths as * Ref. * ; side panel ; slip resistant pad ; * x * x * ; chromium plated pillar taps as * Ref. * ; self closing ; 13 diameter ; chromium plated waste fittings as * Ref. * ; plug and chain ; 32 diameter ; plastic bottle traps as * Ref. * ; pointing with silicone sealant (SV)

nr

SANITARY FITTINGS (Cont'd)

W.C. suites

A	vitreous china W.C. pans as * Ref. * ; European ; vertical outlets ; plastic cisterns as * Ref. * ; high level ; 9 litres ; valveless syphonic fittings ; overflow ; two brackets ; plastic flush pipes ; plastic W.C. seats with cover ; white ; plastic inlet connectors for W.C. pans (SV)		nr		
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B	vitreous china W.C. pans as * Ref. * ; Asiatic ; squatting treads ; vertical outlets ; vitreous china cisterns as * Ref. * ; low level ; 9 litres ; valveless syphonic fittings ; overflow ; two brackets ; plastic flush pipes ; plastic W.C. seats with cover ; white ; plastic inlet connectors for W.C. pans (SV)		nr		
---	---	--	----	--	--

Urinals

C	vitreous china urinal bowls as * Ref. * ; concealed hangers ; spreaders ; outlet gratings ; waste fittings (SV)		nr		
---	--	--	----	--	--

D	vitreous china divisions as * Ref. * ; concealed hangers * x * (SV)		nr		
---	---	--	----	--	--

E	automatic flushing cisterns ; syphons ; brackets ; chromium plated petcocks as * Ref. * ; 9 litres (SV)		nr		
---	--	--	----	--	--

F	chromium plated flush pipes ; exposed ; to suit range of two urinals (SV)		nr		
---	---	--	----	--	--

Shower suites

G	chromium plated shower fittings as * Ref. * ; swivel heads with adjustable spray ; hot and cold mixer taps ; concealed riser pipes (SV)		nr		
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MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.17/8

To Collection \$

SANITARY FITTINGS (Cont'd)

Stainless steel sinks

A	stainless steel sinks ; satin finish ; single bowl ; single drainer ; back skirting ; * x * ; chromium plated pillar taps as * Ref. * ; self closing ; 13 diameter ; chromium plated waste fittings as * Ref. * ; plug and chain ; 32 diameter ; plastic bottle traps as * Ref. * ; pointing with silicone sealant at junctions with walls (SV)	nr
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Ancillaries

B	chromium plated waste fittings ; plug, chain and stay ; 32 diameter (SV)	nr
---	--	----

C	chromium plated pillar taps ; screw down ; 13 diameter (SV)	nr
---	---	----

D	plastic bottle traps ; "P" trap ; 75 seal ; * diameter (SV)	nr
---	---	----

E	plastic traps ; "S" trap ; * seal ; * diameter (SV)	nr
---	---	----

F	plastic bath traps with combined flexible overflow ; "P" trap ; * seal ; * diameter (SV)	nr
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Toilet fittings

G	chromium plated toilet roll holders as * Ref. * (SV)	nr
---	--	----

H	enamelled soap dishes as * Ref. * (SV)	nr
---	--	----

J	chromium plated washing cream dispensers as * Ref. * (SV)	nr
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SOIL, WASTE AND VENTILATION PIPE SYSTEM

Plastic soil and ventilating pipes and fittings ; solvent weld joints ; fixing with holderbats brackets or pipe clips

Pipes and fittings ; fixing to walls and columns

A * diameter (SV) m

Pipes and fittings ; fixing to soffits

B * diameter (SV) m

Extra over pipes for

C * bends (SV) nr

D * bends with access door (SV) nr

E * x * x * single branch junctions (SV) nr

F * x * x * x * double branch junctions (SV) nr

G * boss connectors (SV) nr

H access doors on * pipe (SV) nr

J * bent W.C. connectors with adaptors (SV) nr

K socket adaptors on * pipes (SV) nr

L * drain adaptors (SV) nr

Aprons and cowls

M * weathering apron for asphalt roof (SV) nr

N * vent cowl (SV) nr

Roof and floor outlets and the like

P * flat floor outlets ; flat gratings ; chromium plated ; vertical spigots (SV) nr

SOIL, WASTE AND VENTILATION PIPE SYSTEM (Cont'd)

Gratings and caps to heads, ends of pipes and the like

A	wire balloon gratings for * pipes ; copper	(SV)	nr	
---	--	------	----	--

Joints to pipes of differing materials

B	connections to * diameter cast iron pipes ; gaskin and lead or cold caulking compound ; adaptors	(SV)	nr	
---	--	------	----	--

Pipe sleeves ; PVC ; casting into concrete or building into brickwork

C	* long to suit * pipe	(SV)	nr	
---	-----------------------	------	----	--

Pipe sleeves ; galvanised mild steel ; casting into concrete or building into brickwork ; caulking full depth between pipe and sleeve with mineral wool ; pointing with mastic sealant both ends

D	* long to suit * pipe	(SV)	nr	
---	-----------------------	------	----	--

Pipe sleeves ; cast iron ; casting into concrete or building into brickwork ; caulking full depth between pipe and sleeve with mineral wool ; pointing with mastic sealant both ends

E	* long to suit * pipe	(SV)	nr	
---	-----------------------	------	----	--

Pipe sleeves ; cast iron ; puddle flange ; casting into concrete or building into brickwork ; caulking full depth between pipe and sleeve with cold caulking compound

F	* long to suit * pipe	(SV)	nr	
---	-----------------------	------	----	--

COLD WATER INSTALLATION

Galvanised mild steel pipes and fittings ; screwed joints ; fixing with holderbats brackets or pipe clips

Pipes and fittings ; fixing to walls and columns

A * diameter (SV) m

Pipes and fittings ; fixing to soffits

B * diameter (SV) m

Pipes and fittings ; fixing to roofs ; concrete blocks

C * diameter (SV) m

Pipes and fittings ; bedding in or chasing to floors

D * diameter (SV) m

Pipes and fittings ; bedding in or chasing to walls and columns

E * diameter (SV) m

Extra over pipes for

F * bends (SV) nr

G * elbows (SV) nr

H * x * x * tees (SV) nr

J * x * x * x * crosses (SV) nr

K * diminishing sockets (SV) nr

L * blank caps (SV) nr

M * socket plugs (SV) nr

COLD WATER INSTALLATION (Cont'd)

Joints to pipes of differing materials

A connections to * diameter cast iron pipes ; gaskin and lead or cold caulking compound joints (SV)

nr

Pipe sleeves ; PVC ; casting into concrete or building into brickwork

B * long to suit * pipe (SV)

nr

Pipe sleeves ; galvanised mild steel ; casting into concrete or building into brickwork ; caulking full depth between pipe and sleeve with mineral wool ; pointing with mastic sealant both ends

C * long to suit * pipe (SV)

nr

Pipe sleeves ; cast iron ; casting into concrete or building into brickwork ; caulking full depth between pipe and sleeve with mineral wool ; pointing with mastic sealant both ends

D * long to suit * pipe (SV)

nr

Pipe sleeves ; cast iron ; puddle flange ; casting into concrete or building into brickwork ; caulking full depth between pipe and sleeve with cold caulking compound

E * long to suit * pipe (SV)

nr

Brass fittings ; joints to galvanised mild steel pipes

Flanged tank connectors ; bedding in mastic

F to suit * diameter pipes ; fixing to side of reinforced concrete tank * thick (SV)

nr

COLD WATER INSTALLATION (Cont'd)

High pressure brass valves ;
joints to galvanised mild steel
pipes

Drain valves

A	13 diameter	(SV)	nr	
---	-------------	------	----	--

Stop valves

B	13 diameter	(SV)	nr	
---	-------------	------	----	--

High pressure bronze valves ;
joints to galvanised mild steel
pipes

Ball valves ; copper floats

C	* diameter	(SV)	nr	
---	------------	------	----	--

High pressure cast iron valves ;
joints to galvanised mild steel
pipes

Gate valves ; flanged

D	* diameter	(SV)	nr	
---	------------	------	----	--

Check valves ; flanged

E	* diameter	(SV)	nr	
---	------------	------	----	--

Ball valves ; copper floats

F	* diameter	(SV)	nr	
---	------------	------	----	--

Collecting from Government
Logistic Centres and FIXING ONLY

Cisterns ; galvanised mild steel

G	760 x 760 x 760 ; capacity 405 litres	(SV)	nr	
---	--	------	----	--

Covers and frames ; bedding and
haunching frame in cement mortar
; sealing cover in grease

H	610 x 457 clear opening ; weighing approximately 52 kg	(SV)	nr	
---	---	------	----	--

COLD WATER INSTALLATION (Cont'd)

Cisterns and cylinders

Cisterns and covers ; galvanised mild steel

A * x * x * ; capacity * litres (SV) nr

HOT WATER INSTALLATION

Copper pipes and fittings ; joints in accordance with manufacturer's instructions fixing with holderbats brackets or pipe clips

Pipes and fittings ; fixing to walls and columns

B * outside diameter (SV) m

Pipes and fittings ; fixing to soffits

C * outside diameter (SV) m

Pipes and fittings ; bedding in or chasing to floors

D * outside diameter (SV) m

Pipes and fittings ; bedding in or chasing to walls and columns

E * outside diameter (SV) m

Extra over pipes for

F * bends (SV) nr

G * elbows (SV) nr

H * x * x * tees (SV) nr

J * x * x * x * crosses (SV) nr

K * connectors (SV) nr

L * unions (SV) nr

M * diminishing sockets (SV) nr

N * blank caps (SV) nr

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.17/15

To Collection \$

HOT WATER INSTALLATION (Cont'd)

Pipe sleeves ; PVC ; casting into concrete or building into brickwork

A	* long to suit * pipe	(SV)		nr	
---	-----------------------	------	--	----	--

Pipe sleeves ; galvanised mild steel ; casting into concrete or building into brickwork ; caulking full depth between pipe and sleeve with mineral wool

B	* long to suit * pipe	(SV)		nr	
---	-----------------------	------	--	----	--

Brass fittings ; joints to copper pipes

Flanged tank connectors

C	to suit * diameter pipes ; fixing to side of cistern	(SV)		nr	
---	--	------	--	----	--

Medium pressure brass valves ; joints to copper pipes

Drain valves

D	* diameter	(SV)		nr	
---	------------	------	--	----	--

Stop valves

E	* diameter	(SV)		nr	
---	------------	------	--	----	--

Cisterns and cylinders

Cylinders ; galvanised mild steel ; hand holes ; side entry immersion heater ; standard connections

F	* diameter x * high ; capacity * litres	(SV)		nr	
---	---	------	--	----	--

Pipe insulation ; fixing with bands to

Pipes and fittings ; copper

G	* diameter	(SV)		m	
---	------------	------	--	---	--

FLUSHING WATER INSTALLATION

Plastic pipes and fittings ;
solvent weld joints ; fixing with
holderbats brackets or pipe clips

Pipes and fittings ; fixing to
walls and columns

A * diameter (SV) m

Pipes and fittings ; fixing to
soffits

B * diameter (SV) m

Pipes and fittings ; fixing to
roofs ; concrete blocks

C * diameter (SV) m

Pipes and fittings ; bedding in or
chasing to floors

D * diameter (SV) m

Pipes and fittings ; bedding in or
chasing to walls and columns

E * diameter (SV) m

Extra over pipes for

F * made bends (SV) nr

G * bends (SV) nr

H * elbows (SV) nr

J * x * x * tees (SV) nr

K * x * x * x * crosses (SV) nr

L * connectors (SV) nr

M * unions (SV) nr

N * diminishing sockets (SV) nr

P * socket plugs (SV) nr

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.17/17

To C ollection \$

FLUSHING WATER INSTALLATION

(Cont'd)

Joints to pipes of differing materials

A connections to * diameter cast iron pipes ; gaskin and lead or cold caulking compound ; adaptors (SV)

nr

Pipe sleeves ; PVC ; casting into concrete or building into brickwork

B * long to suit * pipe (SV)

nr

Pipe sleeves ; galvanised mild steel ; casting into concrete or building into brickwork ; caulking full depth between pipe and sleeve with mineral wool ; pointing with mastic sealant both ends

C * long to suit * pipe (SV)

nr

Pipe sleeves ; cast iron ; casting into concrete or building into brickwork ; caulking full depth between pipe and sleeve with mineral wool ; pointing with mastic sealant both ends

D * long to suit * pipe (SV)

nr

Pipe sleeves ; cast iron ; puddle flange ; casting into concrete or building into brickwork ; caulking full depth between pipe and sleeve with cold caulking compound

E * long to suit * pipe (SV)

nr

Brass fittings ; joints to plastic pipes

Flanged tank connectors ; bedding in mastic

F to suit * diameter pipes ; fixing to side of reinforced concrete tank * thick (SV)

nr

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.17/18

To C ollection \$

FLUSHING WATER INSTALLATION
(Cont'd)

High pressure PVC valves ; joints
to plastic pipes

Diaphragm or ball type drain
valves

A * diameter (SV) nr

Diaphragm or ball type stop valves

B * diameter (SV) nr

High pressure bronze valves ;
joints to plastic pipes

Ball valves ; plastic floats

C * diameter (SV) nr

Plastic bodied ball valves ;
plastic floats

D * diameter (SV) nr

High pressure cast iron valves ;
joints to plastic pipes

Ball valves ; epoxy coated copper
floats

E * diameter (SV) nr

Collecting from Government
Logistic Centres and FIXING ONLY

Inspection covers and frames ;
bedding and haunching frame in
cement mortar ; sealing cover in
grease

F 610 x 457 clear opening ;
weighing approximately 37 kg
(SV) nr

FIRE FIGHTING INSTALLATION

Galvanised mild steel pipes and fittings ; screwed joints ; fixing with holderbats brackets or pipe clips

Pipes and fittings ; fixing to walls and columns

A * diameter (SV) m

Pipes and fittings ; fixing to soffits

B * diameter (SV) m

Pipes and fittings ; fixing to roofs ; concrete blocks

C * diameter (SV) m

Extra over pipes for

D * bends (SV) nr

E * x * x * tees (SV) nr

Pipe sleeves ; PVC ; casting into concrete or building into brickwork

F * long to suit * pipe (SV) nr

Pipe sleeves ; galvanised mild steel ; casting into concrete or building into brickwork ; caulking full depth between pipe and sleeve with mineral wool ; pointing with mastic sealant both ends

G * long to suit * pipe (SV) nr

Pipe sleeves ; cast iron ; casting into concrete or building into brickwork ; caulking full depth between pipe and sleeve with mineral wool ; pointing with mastic sealant both ends

H * long to suit * pipe (SV) nr

FIRE FIGHTING INSTALLATION
 (Cont'd)

Pipe sleeves ; cast iron ; puddle flange ; casting into concrete or building into brickwork ; caulking full depth between pipe and sleeve with cold caulking compound

A	* long to suit * pipe	(SV)		nr	
---	-----------------------	------	--	----	--

Brass fittings ; joints to galvanised mild steel pipes

Flanged tank connectors ; bedding in mastic

B	to suit * diameter pipes ; fixing to side of reinforced concrete tank * thick	(SV)		nr	
---	---	------	--	----	--

High pressure cast iron valves ; joints to galvanised mild steel pipes

Gate valves ; flanged

C	* diameter	(SV)		nr	
---	------------	------	--	----	--

Check valves ; flanged

D	* diameter	(SV)		nr	
---	------------	------	--	----	--

Ball valves ; copper floats

E	* diameter	(SV)		nr	
---	------------	------	--	----	--

Collecting from Government Logistic Centres and FIXING ONLY

Covers and frames ; bedding and haunching frame in cement mortar ; sealing cover in grease

F	610 x 457 clear opening ; weighing approximately 37 kg	(SV)		nr	
---	--	------	--	----	--

SUNDRY SERVICES

Temporary operation

Temporarily operating installations ; providing a suitably qualified Engineer in attendance

A * installation ; operating period of * days duration ; for purpose of operational instruction for the Employers staff (SV)

item

Identification painting

Painting colour coded identification bands and arrows to pipes, insulated pipes and plant in accordance with GS for Building

B generally (SV)

item

Testing

Testing the whole of the Plumbing Installations and Sanitary Work in accordance with GS for Building ; remedying any defects ; re-testing as necessary

C generally (SV)

item

Record plans

Preparing complete diagrammatic as fitted drawings of all installations ; marking on pipe sizes, valve positions, draw off points, pressure valve positions and settings and any other relevant information

D two copies ; handing to Architect (SV)

item

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Bill Nr. MODBQ.17 - PLUMBER

To Summary

⌘

Bill Nr. MODBQ.18
GLAZIER

GLASS

Clear sheet glass

3 thick ; to wood with sprigs and
linseed oil putty to BS 544 ;
front and back bedded

A	panes not exceeding 0.10 m2	(WD)	m2		
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B	panes 0.10 - 0.30 m2	(WD)	m2		
---	----------------------	------	----	--	--

C	panes 0.30 - 0.50 m2	(WD)	m2		
---	----------------------	------	----	--	--

4 thick ; to wood with sprigs and
linseed oil putty to BS 544 ;
front and back bedded

D	panes not exceeding 0.10 m2	(WD)	m2		
---	-----------------------------	------	----	--	--

E	panes 0.10 - 0.30 m2	(WD)	m2		
---	----------------------	------	----	--	--

F	panes 0.30 - 0.50 m2	(WD)	m2		
---	----------------------	------	----	--	--

G	panes 0.50 - 1.00 m2	(WD)	m2		
---	----------------------	------	----	--	--

5 thick ; to wood with sprigs and
linseed oil putty to BS 544 ;
front and back bedded

H	panes 0.10 - 0.30 m2	(WD)	m2		
---	----------------------	------	----	--	--

J	panes 0.30 - 0.50 m2	(WD)	m2		
---	----------------------	------	----	--	--

K	panes 0.50 - 1.00 m2	(WD)	m2		
---	----------------------	------	----	--	--

L	panes 1.00 - 1.50 m2	(WD)	m2		
---	----------------------	------	----	--	--

M	panes 1.00 - 1.50 m2 ; in irregular shapes, measured square	(WD)	m2		
---	---	------	----	--	--

4 thick ; to wood with wood beads
or mouldings and plastic glazing
strips or the like

N	panes not exceeding 0.10 m2	(WD)	m2		
---	-----------------------------	------	----	--	--

P	panes 0.10 - 0.30 m2	(WD)	m2		
---	----------------------	------	----	--	--

MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.18/1

To Collection	\$	
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GLASS (Cont'd)

A	panes 0.30 - 0.50 m2	(WD)	m2
B	panes 0.50 - 1.00 m2	(WD)	m2
	5 thick ; to wood with wood beads or mouldings and plastic glazing strips or the like		
C	panes 0.10 - 0.30 m2	(WD)	m2
D	panes 0.30 - 0.50 m2	(WD)	m2
E	panes 0.50 - 1.00 m2	(WD)	m2
F	panes 1.00 - 1.50 m2	(WD)	m2
	4 thick ; to metal with metal beads or mouldings and approved proprietary brand non-setting compound		
G	panes not exceeding 0.10 m2	(WD)	m2
H	panes 0.10 - 0.30 m2	(WD)	m2
J	panes 0.30 - 0.50 m2	(WD)	m2
K	panes 0.50 - 1.00 m2	(WD)	m2
	5 thick ; to metal with metal beads or mouldings and approved proprietary brand non-setting compound		
L	panes 0.10 - 0.30 m2	(WD)	m2
M	panes 0.30 - 0.50 m2	(WD)	m2
N	panes 0.50 - 1.00 m2	(WD)	m2
P	panes 1.00 - 1.50 m2	(WD)	m2
Q	panes 1.50 - 2.00 m2	(WD)	m2

Clear float glass

6 thick ; to wood with wood beads or mouldings and plastic glazing strips or the like

R	panes 0.10 - 0.30 m2	(WD)	m2
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GLAZIER

GLASS (Cont'd)

A	panes 0.30 - 0.50 m2	(WD)	m2
B	panes 0.50 - 1.00 m2	(WD)	m2
C	panes 1.00 - 1.50 m2	(WD)	m2
D	panes 1.50 - 2.00 m2	(WD)	m2
	6 thick ; to metal with metal beads or mouldings and approved proprietary brand non-setting compound		
E	panes 0.10 - 0.30 m2	(WD)	m2
F	panes 0.30 - 0.50 m2	(WD)	m2
G	panes 0.50 - 1.00 m2	(WD)	m2
H	panes 1.00 - 1.50 m2	(WD)	m2
J	panes 1.50 - 2.00 m2	(WD)	m2
K	holes ; 300 diameter ; pane size 600 x 600	(WD)	nr
	6 thick ; to metal adjustable frames with clips		
L	louvres 150 wide ; ground and arrised finish to edges (In Nr. 0)	(WD)	m
	<u>Cast glass</u>		
	5 thick ; to wood with wood beads or mouldings and plastic glazing strips or the like		
M	panes 0.10 - 0.30 m2	(WD)	m2
N	panes 0.30 - 0.50 m2	(WD)	m2
P	panes 0.50 - 1.00 m2	(WD)	m2
Q	panes 1.00 - 1.50 m2	(WD)	m2
R	panes 1.50 - 2.00 m2	(WD)	m2

GLASS (Cont'd)

6 thick ; to wood with wood beads or mouldings and plastic glazing strips or the like

A	panes 0.10 - 0.30 m2	(WD)	m2
B	panes 0.30 - 0.50 m2	(WD)	m2
C	panes 0.50 - 1.00 m2	(WD)	m2
D	panes 1.00 - 1.50 m2	(WD)	m2
E	panes 1.50 - 2.00 m2	(WD)	m2

5 thick ; to metal with wood beads or mouldings and approved proprietary brand non-setting compound

F	panes 0.10 - 0.30 m2	(WD)	m2
G	panes 0.30 - 0.50 m2	(WD)	m2
H	panes 0.50 - 1.00 m2	(WD)	m2
J	panes 1.00 - 1.50 m2	(WD)	m2
K	panes 1.50 - 2.00 m2	(WD)	m2

6 thick ; to metal with wood beads or mouldings and approved proprietary brand non-setting compound

L	panes 0.10 - 0.30 m2	(WD)	m2
M	panes 0.30 - 0.50 m2	(WD)	m2
N	panes 0.50 - 1.00 m2	(WD)	m2
P	panes 1.00 - 1.50 m2	(WD)	m2
Q	panes 1.50 - 2.00 m2	(WD)	m2

Wired cast glass

6 thick ; to metal with metal beads or mouldings and approved proprietary brand non-setting compound

R	panes 0.10 - 0.30 m2	(WD)	m2
---	----------------------	------	----

GLASS (Cont'd)

A	panes 0.30 - 0.50 m2	(WD)	m2
B	panes 0.50 - 1.00 m2	(WD)	m2
C	panes 1.00 - 1.50 m2	(WD)	m2
D	panes 1.50 - 2.00 m2	(WD)	m2

6 thick ; to metal adjustable frames with clips

E	louvres 150 wide ; ground and arrised finish to edges (In Nr. 0)	(WD)	m
---	--	------	---

Wired polished plate glass

6 thick ; to metal with metal beads or mouldings and approved proprietary brand non-setting compound

F	panes 0.10 - 0.30 m2	(WD)	m2
G	panes 0.30 - 0.50 m2	(WD)	m2
H	panes 0.50 - 1.00 m2	(WD)	m2
J	panes 1.00 - 1.50 m2	(WD)	m2
K	panes 1.50 - 2.00 m2	(WD)	m2

GLASS BLOCKS

Hollow glass blocks ; non-transparent ; as * ; Ref * ; bedding in cement/lime mortar (1:2:9) ; pointing both sides in white cement

Type * ; 145 x 145 x 95

L	walls or panels	(WD)	m2
---	-----------------	------	----

Expanded metal reinforcement ; galvanised ; weighing not less than 1.6 kg/m2 ; in hollow glass block walls or panels

M	64 wide	(WD)	m
---	---------	------	---

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.18/5

To Collection \$

GLASS BLOCKS (Cont'd)

Forming movement joints ; around perimeter

A 12 x 70 Flexcell joint filler ;
sealing with 12 x 12 standard
grade mastic both sides (WD) m

Two coats bituminous paint ;
around perimeter

B 95 wide (WD) m

MIRRORS, SHELVING AND DOORS

Clear float glass

6 thick ; placing on shelf
brackets

C shelves ; 800 x 150 (WD) nr

6 thick ; placing in grooves

D doors ; 450 x 600 ; bevelling
edges ; 25 diameter hole for
finger pull (WD) nr

Selected clear float glass ;
silvering and protecting with
undercoat paint

6 thick ; to walls ; with four
chromium plated brass dome headed
screws and rubber washers

E mirrors ; 450 x 450 ; bevelling
edges (WD) nr

F mirrors ; 600 x 600 ; square
edges (WD) nr

DOMELIGHTS

Domelights ; as * ; Ref *

Type * ; rectangular shape ; 6
thick wired cast glass

G overall size ; 900 x 900 ;
fixing with screws and clips ;
to concrete curbs (WD) nr

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.18/6

To Collection \$

SUNDRIES

Sundry items

Hacking out existing glass and
preparing for new

A in existing metal windows (WD) m2

B in existing wood doors (WD) m2

Edge of glass

C bedding in strips of plastic or
the like (WD) m

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Bill Nr. MODBQ.18 - GLAZIER		
To Summary		\$

Bill Nr. MODBQ.19
PAINTER

PAINTING

Applying two coats of cement paint
; on

Concrete walls and columns

A	over 300 girth	(EF)	m2	
---	----------------	------	----	--

Fair faced concrete walls and columns

B	over 300 girth	(EF)	m2	
---	----------------	------	----	--

Rendered walls and columns

C	over 300 girth	(EF)	m2	
---	----------------	------	----	--

Concrete ceilings and beams

D	over 300 girth	(EF)	m2	
---	----------------	------	----	--

E	over 300 girth ; 3.50 - 5.00m above floor level	(EF)	m2	
---	--	------	----	--

Fair faced concrete ceilings and beams

F	over 300 girth	(EF)	m2	
---	----------------	------	----	--

G	over 300 girth ; 3.50 - 5.00m above floor level	(EF)	m2	
---	--	------	----	--

Rendered ceilings and beams

H	over 300 girth	(EF)	m2	
---	----------------	------	----	--

J	over 300 girth ; 3.50 - 5.00m above floor level	(EF)	m2	
---	--	------	----	--

Applying one coat water based lime
resistant primer and two full
coats of emulsion paint ; on

Fair faced concrete walls and columns

K	over 300 girth	(IF)	m2	
---	----------------	------	----	--

PAINTING (Cont'd)

	Plastered walls and columns				
A	over 300 girth	(IF)	m2		
	Fair faced concrete ceilings and beams				
B	over 300 girth	(IF)	m2		
C	over 300 girth ; 3.50 - 5.00m above floor level	(IF)	m2		
	Plastered ceilings and beams				
D	over 300 girth	(IF)	m2		
E	over 300 girth ; 3.50 - 5.00m above floor level	(IF)	m2		
	<u>Applying painting system Type A as GS Table 21.2 ; on structural steel</u>				
	General surfaces				
F	over 300 girth	(IF)	m2		
G	not exceeding 100 girth	(IF)	m		
H	100 - 200 girth	(IF)	m		
J	200 - 300 girth	(IF)	m		
	Members of roof trusses and lattice steelwork				
K	over 300 girth	(IF)	m2		
L	not exceeding 100 girth	(IF)	m		
M	100 - 200 girth	(IF)	m		
N	200 - 300 girth	(IF)	m		
	<u>Applying rust inhibitor, one coat primer only ; on metal ; before fixing</u>				
	General surfaces				
P	over 300 girth	(IF)	m2		

PAINTING (Cont'd)

A	not exceeding 100 girth	(IF)	m
B	100 - 200 girth	(IF)	m
C	200 - 300 girth	(IF)	m
Individual members of balustrading, fencing, gates and railings			
D	over 300 girth	(EF)	m2
E	not exceeding 100 girth	(EF)	m
F	100 - 200 girth	(EF)	m
G	200 - 300 girth	(EF)	m
<u>Applying rust inhibitor, one coat primer, two undercoats and one finishing coat of synthetic paint ; on metal</u>			
General surfaces			
H	over 300 girth	(IF)	m2
J	not exceeding 100 girth	(IF)	m
K	100 - 200 girth	(IF)	m
L	200 - 300 girth	(IF)	m
Windows and glazed doors ; both sides measured flat overall			
M	over 300 girth	(EF)	m2
Individual members of balustrading, fencing, gates and railings			
N	over 300 girth	(EF)	m2
P	not exceeding 100 girth	(EF)	m
Q	100 - 200 girth	(EF)	m
R	200 - 300 girth	(EF)	m

PAINTING (Cont'd)

Pipes and conduits

A	small	(EF)	m
B	large	(EF)	m
C	* diameter	(EF)	m

Applying one coat primer, two undercoats and one finishing coat of synthetic paint ; on galvanised metal

General surfaces

D	over 300 girth	(IF)	m2
E	not exceeding 100 girth	(IF)	m
F	100 - 200 girth	(IF)	m
G	200 - 300 girth	(IF)	m

Windows and glazed doors ; both sides measured flat overall

H	over 300 girth	(EF)	m2
---	----------------	------	----

Individual members of balustrading, fencing, gates and railings

J	over 300 girth	(EF)	m2
K	not exceeding 100 girth	(EF)	m
L	100 - 200 girth	(EF)	m
M	200 - 300 girth	(EF)	m

Pipes and conduits

N	small	(EF)	m
P	large	(EF)	m
Q	* diameter	(EF)	m

PAINTING (Cont'd)

Applying rust inhibitor, two coats of black bitumastic paint ; on metal ; before fixing

Small isolated items

A	600 x 600	(EF)		nr	
---	-----------	------	--	----	--

Applying one coat solution of acetone/benzole, one coat primer, two undercoats and one finishing coat of synthetic paint ; on copper

Pipes and conduits

B	small	(EF)		m	
---	-------	------	--	---	--

C	large	(EF)		m	
---	-------	------	--	---	--

D	* diameter	(EF)		m	
---	------------	------	--	---	--

Applying one coat primer, two undercoats and one finishing coat of synthetic paint ; on plastic

Pipes and conduits

E	small	(EF)		m	
---	-------	------	--	---	--

F	large	(EF)		m	
---	-------	------	--	---	--

G	* diameter	(EF)		m	
---	------------	------	--	---	--

Applying knotting, two coats of black bitumastic paint ; on coated cast iron

Pipes and conduits

H	large	(EF)		m	
---	-------	------	--	---	--

J	* diameter	(EF)		m	
---	------------	------	--	---	--

Applying two coats wood preservative ; on wood ; before fixing

General surfaces

K	over 300 girth	(IF)		m2	
---	----------------	------	--	----	--

Painter

PAINTING (Cont'd)

A	not exceeding 100 girth	(IF)		m	
B	100 - 200 girth	(IF)		m	
C	200 - 300 girth	(IF)		m	
<u>Knotting ; applying one coat primer, stopping, painting one undercoat and one finishing coat of synthetic paint ; on wood</u>					
General surfaces					
D	over 300 girth	(IF)		m2	
E	not exceeding 100 girth	(IF)		m	
F	100 - 200 girth	(IF)		m	
G	200 - 300 girth	(IF)		m	
Windows, glazed doors and glazed screens ; both sides measured flat overall					
H	over 300 girth	(EF)		m2	
<u>Knotting ; applying one coat primer, stopping, painting two undercoats and one finishing coat of synthetic paint ; on wood</u>					
General surfaces					
J	over 300 girth	(IF)		m2	
K	not exceeding 100 girth	(IF)		m	
L	100 - 200 girth	(IF)		m	
M	200 - 300 girth	(IF)		m	
Windows, glazed doors and glazed screens ; both sides measured flat overall					
N	over 300 girth	(EF)		m2	

Painter

PAINTING (Cont'd)

Applying two coats of varnish ; on wood

General surfaces

A	over 300 girth	(IF)	m2
B	not exceeding 100 girth	(IF)	m
C	100 - 200 girth	(IF)	m
D	200 - 300 girth	(IF)	m

Windows, glazed doors and glazed screens ; both sides measured flat overall

E	over 300 girth	(EF)	m2
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Staining to approval ; applying two coats of varnish ; on wood

General surfaces

F	over 300 girth	(IF)	m2
G	not exceeding 100 girth	(IF)	m
H	100 - 200 girth	(IF)	m
J	200 - 300 girth	(IF)	m

Windows, glazed doors and glazed screens ; both sides measured flat overall

K	over 300 girth	(EF)	m2
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POLISHING

Twice wax polishing ; on wood

Floors

L	over 300 girth	(IF)	m2
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Three times wax polishing ; on wood

General surfaces

M	over 300 girth	(IF)	m2
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POLISHING (Cont'd)

A	not exceeding 100 girth	(IF)	m	
B	100 - 200 girth	(IF)	m	
C	200 - 300 girth	(IF)	m	
	Windows, glazed doors and glazed screens ; both sides measured flat overall			
D	over 300 girth	(EF)	m2	

SIGNWRITING

Marking out ; applying thick coat synthetic paint ; on concrete

Lines

E	* wide	(EF)	m	
---	--------	------	---	--

Marking out ; applying thick coat synthetic paint ; on plaster

Letters ; plain

F	* high	(EF)	nr	
---	--------	------	----	--

Numerals ; plain

G	* high	(EF)	nr	
---	--------	------	----	--

Chinese characters ; plain

H	* high	(EF)	nr	
---	--------	------	----	--

Stops and commas ; plain

J	* high	(EF)	nr	
---	--------	------	----	--

TESTING

On site delivery checks

Carry out tests as G.S. for Building Item 21.96, 21.97 and 21.98 on

K	emulsion paint, synthetic paint and multi-layer acrylic paint	(IF)	item	
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C O L L E C T I O N

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Bill Nr. MODBQ.19 - PAINTER

To Summary \$

Bill Nr. MODBQ.20
EXTERNAL WORKS

NOTE :

A Rates in this bill for *hardcore using recycled coarse aggregates / and concrete or reinforced concrete with recycled coarse aggregates shall be deemed to include all additional costs arising from substituting recycled coarse aggregates with natural coarse aggregates when so directed by the Architect or in case of shortage in supply of recycled coarse aggregates from the Recycling Plant at Tuen Mun Area 38 or any other unforeseeable problems accepted and approved in writing by the Architect.

(Guidance notes : 1. These items are to be used only when recycled coarse aggregates are specified by PSE.

2. * Delete as appropriate)

SITE PREPARATION

Site clearance

Clearing the site

B removing off site or burning all rubbish, tall grass, shrubs, bushes and the like and trees not exceeding 600 girth, including grubbing up roots (XW)

item

Cutting down trees

Trees

C * to * girth, grubbing up roots and removing off site or burning (XW)

nr

EXTERNAL WORKS

SITE PREPARATION (Cont'd)

Demolishing or taking down to ground level

All structures

A	on the site ; shoring and scaffolding	(XW)	item	
---	---------------------------------------	------	------	--

Individual structures

B	* x * x * high to parapet ; * storeys ; reinforced concrete framed building ; located at * ; shoring and scaffolding	(XW)	item	
---	--	------	------	--

Plywood faced hardwood hoarding

C	* high ; located at * ; grubbing up bases ; making good pavings	(XW)	m	
---	---	------	---	--

Allowing for the credit value of materials

D	arising from demolition	(XW)	item	
---	-------------------------	------	------	--

Taking over ; altering when required ; maintaining for the duration of the Contract ; removing on completion ; touching up and repainting surfaces and logos as required

Metal hoarding

E	* high ; located at *	(XW)	m	
---	-----------------------	------	---	--

Providing ; erecting ; altering when required ; maintaining for the duration of the Contract ; removing on completion ; applying primer and two coats of synthetic paint on all exposed surfaces ; providing logos and lettering ; to the approval of the Architect ; making good all works disturbed after removal

Metal hoarding ; type *

F	* high	(XW)	m	
---	--------	------	---	--

EXTERNAL WORKS

SITE PREPARATION (Cont'd)

Covered walkway

A * high ; * clear width walkway

(XW)

m

B extra for forming access
gateway * wide x * high ;
removable shutters ; brackets
and fastenings

(XW)

nr

EXTERNAL WORKS

RETAINING WALLS

Excavator

Excavating trenches for retaining walls ; commencing at natural ground level

A not exceeding 1.50m deep (XW) m3

B 1.50 - 3.00m deep (XW) m3

Excavated material

C backfilling ; depositing ; compacting (XW) m3

Surplus excavated material

D removing from site (XW) m3

Graded filter material backfilling

E behind retaining walls ; depositing and compacting in layers (XW) m3

Compaction tests to determine

F the maximum dry density and optimum moisture content in accordance with BS 1377 test nr. 12 or 13 ; PROVISIONAL (XW) nr

G the insitu field density and moisture content in accordance with BS 1377 test nr. 15A or 15B (the sand replacement method) ; PROVISIONAL (XW) nr

Concretor

Concrete ; grade */*

H blinding under foundations ; * thick (XW) m3

Concrete ; no-fines ; grade */*

J filling behind retaining walls (XW) m3

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.20/4

To Collection \$

EXTERNAL WORKS

RETAINING WALLS (Cont'd)

	Reinforced concrete ; grade */*				
A	foundations, attached bases or pile caps (XW)	m3			
B	ground beams (XW)	m3			
C	beds ; * thick (XW)	m3			
	Reinforced concrete ; grade */* ; severe exposure				
D	retaining walls ; * thick (XW)	m3			
	Mild steel bars ; general reinforcement				
E	* diameter ; PROVISIONAL (XW)	kg			
	Mild steel bars ; links, stirrups, binders and special spacers				
F	* diameter ; PROVISIONAL (XW)	kg			
	High yield steel bars ; general reinforcement				
G	* diameter ; PROVISIONAL (XW)	kg			
	Sawn formwork				
H	vertical surfaces ; foundations, pile caps, ground beams and the like (XW)	m2			
J	vertical surfaces ; walls (XW)	m2			
K	vertical surfaces ; walls ; circular ; large radius (XW)	m2			
L	vertical surfaces ; edges and breaks in walls exceeding 225 wide (XW)	m2			
M	vertical surfaces 150 - 225 wide ; edges and breaks in slabs (XW)	m			
	Formwork to produce fair faced finish ; lining with plywood				
N	vertical surfaces ; walls (XW)	m2			
	MODEL BILL OF DESCRIPTIONS ASD STANDARD BILLS MODBQ.20/5		To C	ollection \$	

EXTERNAL WORKS

RETAINING WALLS (Cont'd)

A	vertical surfaces ; walls ; circular ; large radius	(XW)	m2	
B	vertical surfaces ; edges and breaks in walls exceeding 225 wide	(XW)	m2	
	Forming movement joints ; formwork			
C	* wide x * deep ; filling with Flexcell * wide ; cutting and perforating joint filler ; sealing with * x * hot applied joint sealant ; both sides	(XW)	m	
	Bonding rods ; mild steel ; coating half length with two coats of bituminous compound ; sheathing half length in PVC tubing ; packing with cotton waste between tubing and rod ; casting assembly into concrete			
D	* diameter x * long rods	(XW)	nr	
	Plastic weep pipes ; casting into concrete			
E	* diameter x * long	(XW)	nr	
	<u>Plasterer</u>			
	Spatterdash			
F	all surfaces of concrete	(XW)	m2	
	External rendering ; two coats ; walls and columns			
G	* thick	(XW)	m2	
H	* thick ; circular ; large radius	(XW)	m2	
	Forming joints in * finishes ; priming surfaces of joints ; pointing with polysulphide liquid polymer sealant			
J	* x * ; vertical	(XW)	m	

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.20/6

To Collection \$

EXTERNAL WORKS

RETAINING WALLS (Cont'd)

Brass dividing strips ; bedding in wall finish

A * x * (XW) m

Painter

Applying two coats of cement paint ; on fair faced concrete walls and columns

B over 300 girth (XW) m2

Applying two coats of cement paint ; on rendered walls and columns

C over 300 girth (XW) m2

EXTERNAL WORKS

ROADS AND PAVED AREAS

Paved areas

Excavating over site to reduce levels

A over 200 average depth (XW) m3

B average * deep (XW) m2

Excavated material

C filling in making up levels ; depositing in 150 layers ; compacting (XW) m3

D filling in making up levels ; average * thick ; depositing in * layers ; compacting (XW) m2

Surplus excavated material

E removing from site (XW) m3

Hardcore

F filling in making up levels ; deposing and compacting in layers (XW) m3

Hardcore; recycled coarse aggregates

G filling in beds * thick ; blinding with fine graded material (XW) m2

Sand

H in beds * thick (XW) m2

Granular material

J in beds * thick ; blinding with fine graded material (XW) m2

Surfaces of hardcore

K blinding with fine graded material (XW) m2

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.20/8

To Collection \$

EXTERNAL WORKS

ROADS AND PAVED AREAS (Cont'd)

Compaction tests to determine

A the maximum dry density and optimum moisture content in accordance with GEO Report No. 36 test 4.3.3A, 4.3.3B, 4.3.4A or 4.3.4B ; PROVISIONAL (XW) nr

B the in-situ field density and moisture content in accordance with GEO Report No. 36 test 9.2.1 or 9.2.2 ; PROVISIONAL (XW) nr

Concrete ; grade */*

C beds ; * thick (XW) m3

D steps (XW) m3

Concrete ; grade */* ; 100% recycled coarse aggregates

E beds ; * thick (XW) m3

F planter walls ; * thick (XW) m3

G benches ; * generally (XW) m3

H steps (XW) m3

Concrete ; grade */* ; 20% recycled coarse aggregates

J beds ; * thick (XW) m3

K planter walls ; * thick (XW) m3

L benches ; * generally (XW) m3

M steps (XW) m3

Reinforced concrete ; grade */*

N beds ; * thick (XW) m3

P steps (XW) m3

Reinforced concrete ; grade */* ; 100% recycled coarse aggregates

Q beds ; * thick (XW) m3

MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.20/9

To Collection \$

EXTERNAL WORKS

ROADS AND PAVED AREAS (Cont'd)

A	planter walls ; * thick	(XW)	m3	
B	benches ; * generally	(XW)	m3	
C	steps	(XW)	m3	
	Reinforced concrete ; grade */* ; 20% recycled coarse aggregates			
D	beds ; * thick	(XW)	m3	
E	planter walls ; * thick	(XW)	m3	
F	benches ; * generally	(XW)	m3	
G	steps	(XW)	m3	
	Fabric reinforcement ; BS 4483 ; square mesh ; Ref: A142 ; weighing 2.22 kg/m2 ; 200 minimum side and end laps ; measured net - allow for laps			
H	in concrete	(XW)	m2	
	Sawn formwork			
J	vertical surfaces ; 75 - 150 wide ; edges and breaks in slabs	(XW)	m	
K	vertical surfaces ; 150 - 225 wide ; risers	(XW)	m	
L	vertical surfaces ; 225 - 300 wide ; open strings	(XW)	m	
	Precast concrete paving slabs ; BS 6717 ; 600 x 600 x 50 ; natural colour ; smooth finish ; bedding in lime and sand or granite fines (1:3) bedding to the stated thicknesses ; pointing in cement, lime and sand or granite fines (1:3:6)			
M	floors ; on 25 bedding ; laying to break joint pattern	(XW)	m2	
N	treads ; on 25 bedding ; laying to butt joint pattern	(XW)	m2	

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.20/10

To Collection \$

EXTERNAL WORKS

ROADS AND PAVED AREAS (Cont'd)

	Forming movement joints in concrete ; formwork				
A	* wide x * deep ; left open	(XW)	m		
	Surfaces of concrete				
B	finishing with a board edge	(XW)	m2		
	Layer of polythene sheeting ; lapped at joints				
C	laying on blinded hardcore ; measured net - allow for laps	(XW)	m2		
	Local granite ; finely squared dressed surface finish to all exposed surfaces ; bedding in cement mortar ; flush pointing				
D	* x * ; steps ; rebated (In Nr. 0)	(XW)	m		
E	extra over steps for fair ends	(XW)	nr		
	Granolithic Mix Type "C" ; washed finish				
F	floors ; * thick	(XW)	m2		
G	treads and risers ; * thick	(XW)	m2		
	Brass ; dividing strips ; bedding in floor finish				
H	* x *	(XW)	m		
	Non slip inserts to treads ; rounded top edge ; bedding in groove				
J	15 x 25	(XW)	m		
	<u>Access roads and car parking</u>				
	Excavating over site to reduce levels				
K	over 200 average depth	(XW)	m3		
	MODEL BILL OF DESCRIPTIONS				
	ASD STANDARD BILLS				
	MODBQ.20/11				
				To C	ollection \$

EXTERNAL WORKS

ROADS AND PAVED AREAS (Cont'd)

A	average * deep	(XW)	m2	
	Excavating trenches for curbs ; commencing at reduced level			
B	average * deep	(XW)	m	
	Excavated material			
C	filling in making up levels ; depositing in 150 layers ; compacting by vibratory rollers	(XW)	m3	
D	filling in making up levels ; average * thick ; depositing in * layers ; compacting by vibratory roller	(XW)	m2	
	Surplus excavated material			
E	removing from site	(XW)	m3	
	Hardcore			
F	filling in making up levels ; depositing and compacting in layers	(XW)	m3	
G	filling in making up levels average * thick ; blinding with fine graded material	(XW)	m2	
H	in beds * thick ; blinding with fine graded material	(XW)	m2	
	Granular material			
J	filling in making up levels ; depositing and compacting in layers	(XW)	m3	
K	filling in making up levels average * thick ; blinding with fine graded material	(XW)	m2	
L	in beds * thick ; blinding with fine graded material	(XW)	m2	

MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.20/12

To Collection \$

EXTERNAL WORKS

ROADS AND PAVED AREAS (Cont'd)

	Surfaces of hardcore				
A	blinding with fine graded material	(XW)	m2		
	Surfaces of granular material				
B	blinding with fine graded material	(XW)	m2		
	Compaction tests to determine				
C	the maximum dry density and optimum moisture content in accordance with GEO Report No. 36 test 4.3.3A, 4.3.3B, 4.3.4A or 4.3.4B ; PROVISIONAL	(XW)	nr		
D	the in-situ field density and moisture content in accordance with GEO Report No. 36 test 9.2.1 or 9.2.2 ; PROVISIONAL	(XW)	nr		
	Concrete ; grade */*				
E	foundations	(XW)	m3		
F	curbs	(XW)	m3		
G	blinding under foundations ; * thick	(XW)	m3		
	Reinforced concrete ; grade */*				
H	beds ; * thick	(XW)	m3		
	Fabric reinforcement ; BS 4483 ; square mesh ; Ref: A142 ; weighing 2.22 kg/m2 ; 200 minimum side and end laps ; measured net - allow for laps				
J	in concrete	(XW)	m2		
	Sawn formwork				
K	vertical surfaces ; foundations and the like	(XW)	m2		
L	vertical surfaces ; curbs	(XW)	m2		

MODEL BILL OF DESCRIPTIONS

ASD STANDARD BILLS MODBQ.20/13

To Collection \$

EXTERNAL WORKS

ROADS AND PAVED AREAS (Cont'd)

A	vertical surfaces ; curbs ; circular ; large radius	(XW)	m2	
B	vertical surfaces ; 150 - 225 wide ; curbs	(XW)	m	
C	vertical surfaces ; 150 - 225 wide ; curbs ; circular ; large radius	(XW)	m	
Precast concrete ; grade */*				
D	* x * curbs ; half battered ; bedding and haunching in cement mortar (1:3) one side ; fair faced finish to all exposed surfaces ; flush pointing	(XW)	m	
E	* x * curbs ; half battered ; bedding and haunching in cement mortar (1:3) one side ; circular units ; large radius ; fair faced finish to all exposed surfaces ; flush pointing	(XW)	m	
F	angles ; on curbs	(XW)	nr	
G	* x * gutter channels ; splayed ; bedding in cement mortar (1:3) ; fair faced finish to all exposed surfaces ; flush pointing	(XW)	m	
H	* x * gutter channels ; splayed ; bedding in cement mortar (1:3) ; circular units ; large radius ; fair faced finish to all exposed surfaces ; flush pointing	(XW)	m	
J	angles ; on gutter channels	(XW)	nr	
Forming movement joints in concrete ; formwork				
K	* wide x * deep ; filling with Flexcell * wide ; cutting and perforating joint filler ; sealing with * x * cold poured joint sealant ; one side	(XW)	m	

EXTERNAL WORKS

ROADS AND PAVED AREAS (Cont'd)

	Bonding rods ; mild steel ; coating half length with two coats of bituminous compound ; sheathing half length in PVC tubing ; packing with cotton waste between tubing and rod ; casting assembly into concrete			
A	* diameter x * long rods	(XW)	nr	
	Surfaces of concrete			
B	finishing with a wood float	(XW)	m2	
	Layer of polythene sheeting ; lapped at joints			
C	laying on blinded hardcore ; measured net - allow for laps	(XW)	m2	
	Local granite ; finely squared dressed surface finish to all exposed surfaces ; bedding and haunching in cement mortar one side ; flush pointing			
D	* x * ; curbs, fenders and the like ; chamfered	(XW)	m	
E	* x * ; curbs, fenders and the like ; chamfered ; circular ; all cutting ; templates ; large mean radius	(XW)	m	
	Road surfacing in accordance with Section 9 of the General Specification for Civil Engineering Works, current edition, issued by the Civil Engineering Department of the Hong Kong SAR Government			
F	sub-base ; in beds * thick on sub-grade ; compacting ; preparing sub-grade	(XW)	m2	
G	roadbase ; bituminous material as Table 9.3 ; * nominal maximum aggregate size with * % bitumen content	(XW)	m2	
	MODEL BILL OF DESCRIPTIONS ASD STANDARD BILLS MODBQ.20/15		To C	ollection \$

EXTERNAL WORKS

ROADS AND PAVED AREAS (Cont'd)

A	basecourse ; bituminous material as Table 9.3 ; * nominal maximum aggregate size with * % bitumen content (XW)	m2
B	wearing course ; bituminous material as Table 9.3 ; * nominal maximum aggregate size with * % bitumen content (XW)	m2
	Marking out ; applying two thick coats of standard hot thermoplastic materials ; BS3262 on bitumen macadam roads	
C	lines ; * wide (XW)	m
D	letters or numerals ; * high (XW)	nr
E	chinese characters ; * high (XW)	nr
F	arrow heads ; * wide x * long ; straight (XW)	nr

EXTERNAL WORKS

FENCING AND BALUSTRADING

Excavating

Post holes ; commencing at reduced level

A not exceeding 0.30m3 (XW) nr

Concrete ; grade */*

Small bases for fencing posts

B * x * x * deep (XW) nr

Precast concrete ; grade 25/10

Intermediate posts ; setting in concrete bases (bases measured separately)

C 2.55m long ; 150 x 100 tapering to 100 x 100 ; five times holed to 10 diameter ; reinforcing with four 10 diameter longitudinal mild steel bars and 6 diameter mild steel stirrups at 225 centres ; fair face finish (XW) nr

D 3.15m girth ; 150 x 100 tapering to 100 x 75 ; cranked top end three times grooved ; seven times holed to 10 diameter ; reinforcing with four 10 diameter longitudinal mild steel bars and 6 diameter mild steel stirrups at 225 centres ; fair face finish (XW) nr

End strainer posts ; setting in concrete bases (bases measured separately)

E 2.55m long ; 150 x 150 tapering to 150 x 100 ; five times holed to 10 diameter ; once holed to 16 diameter ; reinforcing with four 10 diameter longitudinal mild steel bars and 6 diameter mild steel stirrups at 225 centres ; fair face finish (XW) nr

EXTERNAL WORKS

FENCING AND BALUSTRADING (Cont'd)

A	3.15m girth ; 150 x 150 tapering to 150 x 75 ; cranked top end three times grooved ; seven times holed to 10 diameter ; once holed to 16 diameter ; reinforcing with four 10 diameter longitudinal mild steel bars and 6 diameter mild steel stirrups at 225 centres ; fair face finish (XW)		nr	
	Corner strainer posts ; setting in concrete bases (bases measured separately)			
B	2.55m long ; 150 x 150 tapering to 150 x 100 ; five times holed to 10 diameter ; twice holed to 16 diameter ; reinforcing with four 10 diameter longitudinal mild steel bars and 6 diameter mild steel stirrups at 225 centres ; fair face finish (XW)		nr	
C	3.15m girth ; 150 x 150 tapering to 150 x 75 ; cranked top end three times grooved ; seven times holed to 10 diameter ; twice holed to 16 diameter ; reinforcing with four 10 diameter longitudinal mild steel bars and 6 diameter mild steel stirrups at 225 centres ; fair face finish (XW)		nr	
	Gate posts ; setting in concrete bases (bases measured separately)			
D	2.55m long ; 200 x 200 ; five times holed to 10 diameter ; once holed to 16 diameter ; reinforcing with four 12 diameter longitudinal mild steel bars and 6 diameter mild steel stirrups at 150 centres ; fair face finish (XW)		nr	
	MODEL BILL OF DESCRIPTIONS ASD STANDARD BILLS MODBQ.20/18		To C	ollection \$

EXTERNAL WORKS

FENCING AND BALUSTRADING (Cont'd)

A	3.15m girth ; 200 x 200 ; cranked top end tapering to 200 x 75 and three times grooved ; seven times holed to 10 diameter ; once holed to 16 diameter ; reinforcing with four 12 diameter longitudinal mild steel bars and 6 diameter mild steel stirrups at 150 centres ; fair face finish (XW)		nr	
	Strut posts ; setting in concrete bases (bases measured separately)			
B	1.95m long ; 150 x 100 ; splayed top end ; 150 x 100 x 75 shoulder ; once holed to 16 diameter ; reinforcing with four 10 diameter longitudinal mild steel bars and 6 diameter mild steel stirrups at 225 centres ; fair face finish (XW)		nr	
	<u>Galvanised mild steel</u>			
	Fixing hooks ; fixing to bottom of chain link fencing ; setting in concrete bases (bases measured separately)			
C	flats ; 6 x 25 x 225 girth (XW)		nr	
	Fixing strips			
D	flats ; 6 x 25 (XW)		kg	
	Bolts ; nuts and washer			
E	* diameter (In Nr. 0) (XW)		kg	
	<u>Plastic coated galvanised steel wire to BS 4102 Grade A</u>			
	Chain link mesh ; straining tight ; fixing to posts with steel strips (measured separately)			
F	3.55 diameter wire ; 75 mesh (XW)		m2	

EXTERNAL WORKS

FENCING AND BALUSTRADING (Cont'd)

	Selvage wire ; straining tight ; fixing to posts with steel strips (measured separately)			
A	3.55 diameter wire (XW)		m	
	Barbed wire ; two strand ; straining tight ; fixing to posts with steel strips (measured separately)			
B	3.55 diameter wire (XW)		m	
	<u>Galvanised mild steel framed gates ; overall size * x * ; * nr. ; welded connections</u>			
	Framing			
C	tubing ; * nominal bore (XW)		m	
	Fixing lugs			
D	flats ; * x * x * (In Nr. 0) (XW)		kg	
	High tensile steel fabric ; spot welding			
E	fabric ; * diameter bars ; 75 x 25 oblong hole mesh (XW)		m2	
	Ironmongery			
F	pivot hinges ; 15 x 40 x 300 girth plate once bent and once rounded ; 25 diameter hardened steel rod 40 long with washer ; 50 x 50 x 16 plate twice rounded and once holed for 25 diameter pivot ; approximate total weight * kg (XW)		nr	
G	sliding bolts ; 20 diameter shoot 500 girth once bent ; 50 x 50 x 10 holed guide twice rounded ; 25 diameter x 100 long tubing set in concrete ; approximate total weight * kg (XW)		nr	

EXTERNAL WORKS

FENCING AND BALUSTRADING (Cont'd)

A	sliding bolts ; 20 diameter shoot 975 long ; three 50 x 50 x 10 holed guides twice rounded ; 50 x 50 x 10 holed guide twice rounded with 25 stop ; 38 x 10 x 200 girth slotted hasp three times bent ; 150 x 40 x 10 staple holed and twice rounded ; 25 diameter x 100 long tubing set in concrete ; approximate total weight * kg	(XW)	nr	
B	brass padlocks ; 75	(XW)	nr	
	<u>Applying one coat primer, two undercoats and one finishing coat of synthetic paint ; on galvanised metal</u>			
	General surfaces			
C	over 300 girth	(XW)	m2	
	Individual members of balustrading, fencing, gates and railings			
D	over 300 girth	(XW)	m2	
E	not exceeding 100 girth	(XW)	m	
F	100 - 200 girth	(XW)	m	
G	200 - 300 girth	(XW)	m	
	Mesh covered or ornamental fencing, gates and railings ; both sides measured flat overall			
H	over 300 girth	(XW)	m2	

EXTERNAL WORKS

EXTERNAL SERVICES

Water installation

Excavating trenches for service pipes ; commencing at reduced level

A average * deep (XW) m

Granular material ; beds

B * x * under * diameter pipes (XW) m

Concrete ; grade 10/20 ; beds and surrounds ; formwork

C * x * under * diameter pipes ; surrounds minimum * thick (XW) m

Stop cock pits ; 75 concrete grade */* base ; half brick sides in seconds quality bricks in cement mortar ; flush pointing internally ; cast iron hinged cover and frame ; excavating ; disposing of surplus excavated material

D 225 x 225 x 600 internally (XW) nr

UPVC pipes and fittings ; solvent weld joints ; laying in trenches

E * diameter (XW) m

extra over pipes for * bends

F (XW) nr

Galvanised mild steel pipes and fittings ; screwed joints ; laying in trenches

G * diameter (XW) m

extra over pipes for * bends

H (XW) nr

High pressure PVC valves ; joints to plastic pipes

J diaphragm or ball type stop valves ; * diameter (XW) nr

MODEL BILL OF DESCRIPTIONS
ASD STANDARD BILLS MODBQ.20/22

To C ollection \$

EXTERNAL WORKS

EXTERNAL SERVICES (Cont'd)

A	High pressure cast iron valves ; joints to galvanised mild steel pipes gate valves ; * diameter (XW)	nr	
B	Pipe protection ; Denso tape ; wrapping around galvanised mild steel pipes and fittings * diameter (XW)	m	
C	Pipe protection ; Denso tape ; wrapping around plastic pipes and fittings * diameter (XW)	m	
<u>Electrical installation</u>			
D	Excavating trenches for cables or ducts ; commencing at reduced level average * deep (XW)	m	
E	Sand ; beds * x * under cables (XW)	m	
F	* x * under * diameter ducts (XW)	m	
G	Earth pits ; 75 concrete grade */* base ; half brick sides in seconds quality bricks in cement mortar ; flush pointing internally ; precast concrete grade */* cover slab reinforced with 12 diameter mild steel bars at 150 centres both ways and finished fair on top ; cast iron hinged cover and frame ; excavating ; disposing of surplus excavated material 450 x 450 x 750 internally (XW)	nr	

EXTERNAL WORKS

EXTERNAL SERVICES (Cont'd)

UPVC ducts and fittings ; solvent
weld joints ; laying in trenches
; cable draw wires

A * diameter (XW) m

B extra over ducts for * bends (XW) nr

Galvanised mild steel ducts and
fittings ; screwed joints ;
laying in trenches ; cable draw
wires

C * diameter (XW) m

D extra over ducts for * bends (XW) nr

Gas installation

Excavating trenches for service
pipes ; commencing at reduced
level

E average * deep (XW) m

Sand ; beds

F * x * under * diameter pipes (XW) m

Telephone installation

Excavating trenches for cables or
ducts ; commencing at reduced
level

G average * deep (XW) m

Sand ; beds

H * x * under cables (XW) m

J * x * under * diameter ducts (XW) m

EXTERNAL WORKS

EXTERNAL SERVICES (Cont'd)

Cable draw pits ; 300 x 150
concrete grade */* strip
foundations ; 75 bed of rubble
fill as base ; 150 concrete grade
/ sides finished fair one side
and with rebated tops ; formwork
; 700 x 700 x 50 precast concrete
cover reinforced with 12 diameter
mild steel bars at 150 centres
both ways and finished fair on
top with adjustable handles ;
excavating ; disposing of surplus
excavated material

A 600 x 600 x 550 internally (XW) nr

UPVC ducts and fittings ; solvent
weld joints ; laying in trenches
; cable draw wires

B * diameter (XW) m

C extra over ducts for * bends (XW) nr

Galvanised mild steel ducts and
fittings ; screwed joints ;
laying in trenches ; cable draw
wires

D * diameter (XW) m

EXTERNAL WORKS

LANDSCAPING

Excavator

Excavating over site to reduce levels

A	over 200 average depth	(XW)	m3
B	average * deep	(XW)	m2
Excavated material			
C	filling in making up levels	(XW)	m3
D	filling in making up levels ; average * deep	(XW)	m2
Surplus excavated material			
E	removing from site	(XW)	m3

EXTERNAL WORKS

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C.fwd \$

EXTERNAL WORKS

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