THE GOVERNMENT OF ZIMBABWE

BILLS OF QUANTITIES

PROPOSED DOG KENNELS

AT

BULAWAYO (UMGUZA)

FOR

ZIMRA

ARCHITECTS, QUANTITY SURVEYORS AND ENGINEERS
MINISTRY OF LOCAL GOVERNMENT, PUBLIC WORKS AND NATIONAL HOUSING
P. BAG 7755
CAUSEWAY
HARARE

APRIL 2018.

TENDER NUMBER:
SITE VISIT DATE:
CLOSING DATE:

CONTENTS

3ill <u>40.</u>	Trade	Page
1	PRELIMINARIES AND GENERAL	1
2	FOUNDATIONS	4
3	CONCRETE, FORMWORK & REINFORCEMENT	9
4	BRICKWORK	11
5	WATERPROFING	14
6	ROOF COVERINGS	15
7	CARPENTRY	16
8	JOINERY AND IRONMONGERY	17
9	METALWORK	18
10	PAVINGS AND FLOOR COVERINGS	19
12	PLUMBING (PROVISIONAL)	20
13	PAINTING	21
14	PROVISIONAL AND PRIME COST SUMS	24

NOTICE TO TENDERERS

GENERALLY

These Bills of Quantities comprising Bill numbers 2 to 14, contain 31 pages numbered consecutively, and the Preliminary and Generally, Bill No.1, contains 19 pages numbered consecutively.

These Bills of quantities are to be read in conjunction with, and all workmanship and materials, unless otherwise described, shall comply with the Ministry of Local Government, Public Works and National Housing's "General Specification" revised in january 1978.

It is hereby made condition that the Contractor's submission of a tender based on these Bills of Quantities shall be accepted as proof that he was in possession of the above mentioned General Specification at the time of tendering and that his tendered price was based on the requirements of such General Specification.

The Contractor is required to check the number of pages of all the documents, and all references thereto in Summary and the Collections. Should any pages be missing or dupilcated, or the figures or typing be indistinct, or the descriptions be ambiguous, he is to apply at once to the Secretary for Local Government, Public Works and National Housing and have the same rectified.

Any errors or claims arising through the Contractors failing to comply with the above will not be admitted after the submission of his tender.

These Bills of Quantities are to be priced by the Contractor and returned, fully priced out in ink, only when his Tender is being considered for acceptance, and when called for by the Secretary for Local Government, Public Works and National Housing.

SYSTEM OF MEASUREMENT

The method of measurement of these Bills of Quantities is in accordance with the general principles laid down in the System of Measurement of Building Work in Zimbabwe, third Edition, dated 1st May 1985, as issued by the Zimbabwe Institute of Quantity Surveyors and the Construction Industry Ferderation of Zimbabwe. This system may be modified in certain respects as described in these Bills of Quantities and it is to be understood that the system of measurement adopted in these Bills of Quantities is the only system which will be recognised in connection with this Contract.

TRADE NAMES, ETC

Where trade names, manufacturer's catalogue or reference numbers, etc., are used in these bills of Quantities, the items refered thereto shall be of equal and approved quality, specification and mass in all respects to those specified and approval for any substitution shall be obtained in writing from the Secretary for Local Government, Public Works and National Housing before the submission of tenders, otherwise the specified materials, fittings, etc., will be assumed to have been allowed for in the tender.

DRAWINGS

The following drawings have been used in the preparation of these Bills of Quantities, and may be seen at the offices of the Ministry of Local Government, Public Works and National Housing.

Drawings numbers

Architectural 192383/A/02 Structural /S/02,

	BILL NO.2				
	FOUNDATIONS (PROVISIONAL)				
	(For Preambles see General Specification)		n.	-	
<u>Iter</u>	<u>Description</u>		Qty	<u>Rate</u>	<u>Amount</u>
	Note: Foundations have been measured to top of surface bed.				
	SITE CLEARANCE				
A	Clear site of all rubbish, bushes, shrubs, undergrowth, hedges, small trees, stumps, roots, etc.	m²	107		
В	Cut down and remove tree exceeding 500 and not exceeding 1000 mm girth measured 1000 mm above ground level including grubbing up roots and filling in holes.				
	Tioles.	no.	1		
_C	Ditto tree exceeding 1000 mm and not exceeding 2000 mm ditto.				-
	1	no.	1		<i>i</i>
	<u>EXCAVATION</u>		r _k		\$
	Pumping and bailing				
D	Allow for the keeping excavations free of storm, surface and mud by pumping and bailing.		-		
	surface and find by pumping and balling.	item			
Е	Excavate over site to remove vegetable soil average 150 mm deep and deposit on site not exceeding 100 metres.				
	oxecoding 100 metros.	m²	54		"
					-
	Carried to collection		}		

T	1	1	1	ĺ	Ĭ	1
	Excavate in pickable earth for					
A	Reducing levels under floors not exceeding 300 mm deep.	m³	17			
В	Surface trenches not exceeding 2 metres deep.	m³	20			
C	Brick piers 345 x230mm trenches not exceeding 2 m	netres de m³	ep. 1	,		
D	Extra over excavation in pickable material for excavation in hard pickable material.	m³	1			
_	S	111	1			
E	Ditto excavation in rock.	m³	1	á.		
	Planking and strutting					
F	Allow for maintaining and supporting sides of all excavations and making good all slips.	m²	43			
	<u>Disposal</u>					
G	Redig from spoil heap, return, fill and well compact selected excavated material around foundations to 95% L.C.E. density.				8 8. 8.	
	acional delication of the second delication of	m³	10			
Н	Redig from spoil heap and cart off site.	m³	3		4	
		a.			z z	
_	E				,	
	*					
	Carried to collection					

Formation A Selected imported inert material, spread, level and compact in maximum 150 mm layers to make up levels under floors to 95% L.C.E. density. B Scarify ground to a depth of 150 mm and compact to 95% L.C.E. density. m² 54 C 150 mm thick hardcore material under floors. m³ 8 SUNDRIES D 250 Micron black polythene sheeting well lapped at joints including all cutting and waste (measured nett) laid over filling to receive concrete. m² 54 TERMITES E Termite treatment as described to top of filling and foundation walls with "Shelldrite Ant Poison" by a specialist company and provide a written 10 year guarantee. m² 54 STRUCTURAL CONCRETE Vibrated reinforced concrete (Grade 25 - 20 mm stone) in F Footings. m³ 3 G Ground floor slabs thickening m³ 6 J Water channels Carried to collection							
compact in maximum 150 mm layers to make up levels under floors to 95% L.C.E. density. B Scarify ground to a depth of 150 mm and compact to 95% L.C.E. density. C 150 mm thick hardcore material under floors. B SUNDRIES D 250 Micron black polythene sheeting well lapped at joints including all cutting and waste (measured nett) laid over filling to receive concrete. TERMITES E Termite treatment as described to top of filling and foundation walls with "Shelldrite Ant Poison" by a specialist company and provide a written 10 year guarantee. THURCHITES THE TOTAL CONCRETE Wibrated reinforced concrete (Grade 25 - 20 mm stone) in F Footings. G Ground floor slabs. M 3 G Ground floor slabs thickening M 5 Water channels M 1			<u>Formation</u>				
B Scarify ground to a depth of 150 mm and compact to 95% L.C.E. density. C 150 mm thick hardcore material under floors. B SUNDRIES D 250 Micron black polythene sheeting well lapped at joints including all cutting and waste (measured nett) laid over filling to receive concrete. TERMITES E Termite treatment as described to top of filling and foundation walls with "Shelldrite Ant Poison" by a specialist company and provide a written 10 year guarantee. m² 54 STRUCTURAL CONCRETE Vibrated reinforced concrete (Grade 25 - 20 mm stone) in F Footings. G Ground floor slabs. m³ 4 H Ground floor slabs thickening m³ 6 J Water channels	- 100	Α	compact in maximum 150 mm layers to make up	3			
to 95% L.C.E. density. C 150 mm thick hardcore material under floors. m³ 54 SUNDRIES D 250 Micron black polythene sheeting well lapped at joints including all cutting and waste (measured nett) laid over filling to receive concrete. m² 54 TERMITES E Termite treatment as described to top of filling and foundation walls with "Shelldrite Ant Poison" by a specialist company and provide a written 10 year guarantee. m² 54 STRUCTURAL CONCRETE Vibrated reinforced concrete (Grade 25 - 20 mm stone) in F Footings. G Ground floor slabs. m³ 3 G Ground floor slabs thickening m³ 6 J Water channels				m³	8		
C 150 mm thick hardcore material under floors. m³ 8 SUNDRIES D 250 Micron black polythene sheeting well lapped at joints including all cutting and waste (measured nett) laid over filling to receive concrete. m² 54 TERMITES E Termite treatment as described to top of filling and foundation walls with "Shelldrite Ant Poison" by a specialist company and provide a written 10 year guarantee. m² 54 STRUCTURAL CONCRETE Vibrated reinforced concrete (Grade 25 - 20 mm stone) in F Footings. m³ 3 G Ground floor slabs. m³ 4 H Ground floor slabs thickening m³ 6 J Water channels				m²	54		
SUNDRIES D 250 Micron black polythene sheeting well lapped at joints including all cutting and waste (measured nett) laid over filling to receive concrete. m² 54 TERMITES E Termite treatment as described to top of filling and foundation walls with "Shelldrite Ant Poison" by a specialist company and provide a written 10 year guarantee. m² 54 STRUCTURAL CONCRETE Vibrated reinforced concrete (Grade 25 - 20 mm stone) in F Footings. m³ 3 G Ground floor slabs. m³ 4 H Ground floor slabs thickening m³ 6 Uwater channels m³ 1		_	150 mm thick hardeare material under flagra	5.5 %			
D 250 Micron black polythene sheeting well lapped at joints including all cutting and waste (measured nett) laid over filling to receive concrete. TERMITES E Termite treatment as described to top of filling and foundation walls with "Shelldrite Ant Poison" by a specialist company and provide a written 10 year guarantee. m² 54 STRUCTURAL CONCRETE Vibrated reinforced concrete (Grade 25 - 20 mm stone) in F Footings. m³ 3 G Ground floor slabs. m³ 4 H Ground floor slabs thickening m³ 6 J Water channels		C	130 mm thick hardcore material under hoors.	m³	8		
joints including all cutting and waste (measured nett) laid over filling to receive concrete. TERMITES E Termite treatment as described to top of filling and foundation walls with "Shelldrite Ant Poison" by a specialist company and provide a written 10 year guarantee. m² 54 STRUCTURAL CONCRETE Vibrated reinforced concrete (Grade 25 - 20 mm stone) in F Footings. m³ 3 G Ground floor slabs. m³ 4 H Ground floor slabs thickening m³ 6 J Water channels			<u>SUNDRIES</u>				
E Termite treatment as described to top of filling and foundation walls with "Shelldrite Ant Poison" by a specialist company and provide a written 10 year guarantee. m² 54 STRUCTURAL CONCRETE Vibrated reinforced concrete (Grade 25 - 20 mm stone) in F Footings. m³ 3 G Ground floor slabs. m³ 4 H Ground floor slabs thickening m³ 6 J Water channels			joints including all cutting and waste (measured	m²	54		
E Termite treatment as described to top of filling and foundation walls with "Shelldrite Ant Poison" by a specialist company and provide a written 10 year guarantee. m² 54 STRUCTURAL CONCRETE Vibrated reinforced concrete (Grade 25 - 20 mm stone) in F Footings. m³ 3 G Ground floor slabs. m³ 4 H Ground floor slabs thickening m³ 6 J Water channels			TERMITES				
Vibrated reinforced concrete (Grade 25 - 20 mm stone) in F Footings. G Ground floor slabs. M³ 4 H Ground floor slabs thickening m³ 6 J Water channels m³ 1			Termite treatment as described to top of filling and foundation walls with "Shelldrite Ant Poison" by a specialist company and provide a written 10 year	m²	54	2 2 3	
in Footings. G Ground floor slabs. M³ 4 H Ground floor slabs thickening M³ 6 J Water channels m³ 1			STRUCTURAL CONCRETE				
G Ground floor slabs. H Ground floor slabs thickening m³ 4 H Water channels m³ 6 J Water channels						2	
H Ground floor slabs thickening m³ 4 J Water channels m³ 1		F	Footings.	m³	3	,	
J Water channels m³ 6 m³ 1	1	G	Ground floor slabs.	m³	4		
m³ 1	1	н	Ground floor slabs thickening	m³	6		
m³ 1		J	Water channels				
Carried to collection				т³	1		
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			Carried to collection				

A	Sundries Strike off and cure top of concrete. REINFORCEMENT Steel bar reinforcement	m²	54		
В	BRICKWORK Brickwork in approved common bricks in cement mortar as described 345 x 230mm brick pier				
С	Half brick wall	m³ m³	19		
D	Reinforcement Brickforce lapped at joints and junctions and building in as the work proceeds (measured nett) Ref. C1 in half brick walls.	m	56	T.	s 2 10 10 10 10 10 10 10 10 10 10 10 10 10
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<u> </u>	BILL NO.2: FOUNDATIONS (PRO CARRIED TO SUMMARY	<u>(VISIONAL)</u>		

	BILL NO.3				
	CONCRETE, FORMWORK AND REINFORCEME	<u>NT</u>			
	(For Preambles see General Specification)				-
<u>Iter</u>	Description		Quantity		
	STRUCTURAL CONCRETE				~ .
	Vibrated reinforced concrete (Grade 25 - 20 mm				
	stone) in				
Α	Ring beam.	m ^s	_		
В	Lintols.				
		m ^s	0.25		
C	Sundries Strike off and sure ton of concrete			,,	
	Strike off and cure top of concrete.	m²	1		
	Formwork Class A as described to				
D	Soffit of beams.			8 30	
	Some of Boards.	m²	_	50	
E	Sides of beams.	m²	_		
F	Soffit of lintols.				
		m²	1		
G	Sides of lintols.	m²	2		
				9	
	Carried to collection				

_						
	REINFORCEMENT					
	Steel bar reinforcement					
А	High yield deformed steel reinforcement bars exceeding 8 mm but not exceeding 12 mm diameter.	kg F	R/O			
В	High yield deformed steel reinforcement bars exceeding 12 mm but not exceeding 20 mm diameter.	kg F	R/O			
i	Welded fabric reinforcement of approved manufacture including all cutting, tying, placing in position with necessary temporary supports and minimum 300 mm laps both ways (measured nett)					
С	Ref. S193 (mass of 1.93 kg/square metre) in top reinforcement to slab.	n²	54			
	TESTING					
С	Allow for carrying out slump tests when directed as described.					
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	COLLECTION			PAGE		۰
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	BILL NO.3: CONCRETE, FORMWORK AND REINFORCE	 <u>EME</u>	<u>NT</u>			
	CARRIED TO SUMMARY					

	BILL NO.4				
	BRICKWORK				
	(For Preambles see General Specification)		-		
Iter	Description		Quantity	<u>Rate</u>	<u>Amount</u>
	SAMPLES				
А	Allow for providing samples of all bricks as described.	••			
	BRICKWORK	item			
	Brickwork in approved common bricks in cement mortar as described				
В	Half brick in beam filling.	m²	1		
	Half brick.	111	1		
	Hall Drick.	m²	28		
D	One brick.	m²	R/O		
Е	345 x 230mm brick pier	3			
	CUNDRIEG	m³	1		
	SUNDRIES		8		< d
F	Rough raking cutting to brickwork.	m²	1		
G	Bed wall plate in cement mortar.		-		-
		m	6		
Н	Bed roofing sheets on top of brick walls in cement mortar.				
		m²	1		
J	Build end of roof timber through one brick wall.	no.	8		
К	1,25 mm Galvanised hoop iron tie 25 mm wide and 1000 mm long one end built into brickwork or cast into concrete and other end wrapped around and spiked				
	to wall plate and foot of truss.	no.	16		
L	Form vent openings to architects details		40		
		no.	12		
	,			2	
				a a	
	Carried to collection				

A	Drinking water trough size 345 x 345 x170mm in 2 number courses of 115mm brickwall rendered and painted internally with swimming pool type paint	Item		-	
	DAMP PROOF COURSE				
	One layer of three ply bituminous felt sheeting as damp proof course as described, well lapped at joints and junctions (measured nett)				
В	On walls.				ŀ
		m²	3		
C	Under cills.	m²	_		
	REINFORCEMENT				
	Brickforce lapped at joints and junctions and bedding in as the work proceeds (measured nett)				
D	Ref. C1 in half brick walls.		00		
		m	83		
E	Ref. C2 in one brick walls.	m	1	·	
	BUILDING IN	* **		1	
F		ıf		5	
.	steel door frame not exceeding 5 square metres.	20	4	-	
	· ·	no.	4	÷.	
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BILL NO.4: BRICKWORK				
CARRIED TO SUMMARY				

	BILL NO.5				
	ROOF COVERINGS				
	(For Preambles see General Specification)				-
<u>Iter</u>	<u>Description</u>		Quantity	<u>Rate</u>	<u>Amount</u>
	Corrugated asbestos cement roofing sheets laid in accordance with the manufacturer's printed instructions. 3300mm sheets.				
A	Roofing sheets to be fixed on softwood purlins.	m²	34		
В	Raking cuting and waste	m	2		
С	Spay cutting and waste	no	2		
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	BILL NO.5: ROOF COVERINGS CARRIED TO SUMMARY				

	BILL NO.6			
	CARPENTRY			
	(For Preambles see General Specification)	. –		
Iten	<u>Description</u>		V	
	ROOF TIMBERS			
	Sawn softwood			
A	38 x 114 mm wall plate. m	6		
В	75 x 50 mm purlins.	21		
	PREFABRICATED TIMBER ROOF TRUSSES NOTES Trusses are to be "Gangnail" or other equal and approved prefabricated timber trusses with all members jointed togeth with steel plate nails. All timbers to be wrot. The roof is designed to carry IBR roofing sheets pitched at 2 degrees with 800 mm overhang and 200 mm verges. The contractor may be required to produce design calculatio responsible for sufficiency of design. The roof is to be erected in accordance with the manufacture instructions. Prices are to include for all necessary trusses, rafters, ties as bracings complete.	3 ns - er		
С	Supply and fix roof timber trusses including rafters, ties and bracing ties etcetera to suit building and details on drawing number SH-2010-3-001 item			-
	EAVES AND VERGES			#:
D	225x12 mm Asbestos cement fibre fascia and barge boards countersunk screwed to timber runners including filling in screw holes with approved filler and including mitres etc			
	m	12		
	BILL NO.6: CARPENTRY CARRIED TO SUMMARY		×	

	BILL NO.7	,			
	JOINERY AND IRONMONGERY				
	(For Preambles see General Specification)			ē.	-
Iter	Description		Quantity		
	IRONMONGERY				
A	Chromium plated hat and coat hook.				
^	Chromium piated hat and coat hook.	no.	4		
В	75 mm chromium plated barrel bolt and keep.	no	4		
С	Union No. CZ682 - 24 - 77CH three lever mortic	no.	4		
	lockset.	no.	4		
		110.	4		
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	:	X 20		8	
8	1			7.00	
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9 12	ω			54	
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	BILL NO.7: JOINERY AND IRONMONGERY				
	CARRIED TO SUMMARY				

	BILL NO.8				
	METALWORK				
	(For Preambles see General Specification)		a		
<u>Iten</u>	<u>Description</u>		Quantity	<u>Rate</u>	<u>Amount</u>
	CASEMENT DOOR AND DOOR FRAME			×	
	Standard full profile pressed steel door and frame with chromium plated striking plates where appropriate with metal pannels and handles for inward opening (building in elsewhere measured)				
Α	Casement door type ND1. Size 1250 x 535 mm.	no.	4		
	DIAMOND MESH FENCING				
В	Supply and fix fencing 1800mm high bolted to 50mm diameter galvanised frame and including 50mm pole and double poles at the gates	item		,	
		iteiii			
С	690 x 1870mm high steel gates in 32mm diameter galvanised piping with hinges and locking bolt and padlock supplied and fixed complete		4		
D	50mm diameter galvanised piping with 50mm laid horizontally in top and bottom supplied and fixed complete with 50mm diamond mash fencing wire	no.	4	P	
		m	54		
Е	50mm diameter galvanised piping with 50mm laid vertically in concrete supplied and fixed complete with 50mm diamond mash fencing wire	m	62		
	,				
	BILL NO.8: METALWORK				
	CARRIED TO SUMMARY				

	BILL NO.9		1		
	PLASTERING AND WALL LININGS				
	(For Preambles see General Specification)		n +1		
<u>Iter</u>	<u>Description</u>		Quantity	<u>Rate</u>	<u>Amount</u>
	EXTERNALLY				
	One coat cement plaster as described including all labours with a fine woodfloat finish on				
А	Walls.	m²	46		
В	Ditto in narrow widths.	m²	2		1
	INTERNALLY				
	Render one coat cement plaster and set in Rhinoset plaster including all labours with a steel trowel finish on				
С	Walls.	m²	42		-
D	Ditto in narrow widths.	m²	5		2 40 10 20
Е	Sides of ring beam.	m²	r/o		2949
F	Soffits of beams.	m²	r/o		đ
G	Sides of lintols.	m²	1		 14
Н	Soffits of lintols.	m²	1		
	BILL NO.9: PLASTERING AND WALL LININGS CARRIED TO SUMMARY				
1					

	BILL NO.10			
	PAVINGS, FLOOR COVERINGS, PLASTIC LININGS, ETC			
	(For Preambles see General Specification)			
<u>Iter</u>	<u>Description</u>	Quantity	<u>Rate</u>	<u>Amount</u>
	SCREEDS			-
	Cement and sand screed (1:4) finished to a true and even surface			
A	30 mm screed to receive Porcelaine tile flooring. m²	54		
В	Granolithic Flooring Granolithin flooring. m²	9		
C	75 mm high grano skirting with cove at junction with floor			
	and square top edge, including mitres, etc.	18		
D	Tarred plinth			
-	m	18		
E	Woodfoat finish to floor screed m²	45		
	Removable timber floor			į
F	Removable timber floor supplied and fixed complete			
	to architects details.	5		
	*			×
				;
	BILL NO.10: PAVINGS, FLOOR COVERINGS, PLASTIC LI	 Nings, e	<u>ETC</u>	
	CARRIED TO SUMMARY			

BILL NO.12 PLUMBING (PROVISIONAL) (For Preambles see General Specification) Iten Description Quantity <u>Rate</u> <u>Amount</u> SANITARY PLUMBING "Promat" or equal rigid P.V.C. waste piping with solvent cement and joints and fitting as described A 20 mm diameter pipe laid to fall including plug at end m 2 Extra on P.V.C. piping for B 20 mm bend. 2 no. **BILL NO.12: PLUMBING (PROVISIONAL)** CARRIED TO SUMMARY

	BILL NO.13				
	PAINTING				
	(For Preambles see General Specification)				-
<u>Iten</u>	Description		Quantity	<u>Rate</u>	<u>Amount</u>
	ON PLASTER, ETC				
	Prepare and apply three coats external quality P.V.A. emulsion paint externally on				
А	Fine woodfloat plastered walls.	m²	46		
В	Fine woodfloat plastered walls in narrow widths.	m²	2		
	Prepare and apply three coats internal quality P.V.A. emulsion paint internally on				
С	Steel trowelled plastered walls.	m²	42		
D	Ditto in narrow widths.	m²	2		
Е	Steel trowelled plastered sides and sofits of ring beams.		8 . 8 . 9		j.
		m²	r/o		
F	Steel trowelled plastered sides and sofits of lintols.	m²	2		-
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					-
	Carried to collection				

-							_
		ON METAL					
		Clean down, touch up priming coat and apply one undercoat and two finishing coats high gloss enamel paint on					
	Α	Pressed door and frames.	m²	6			
		ON WOOD, ETC					
		Carbolineum saturate sawn softwood wall plate before fixing.	m²	3			
		LEAVE CLEAN					
		Allow for touching up all work throughout, clean off all paint, oil, cement or other stains or marks, floors, ceilings, glass, etc. and leave all surfaces in full and proper working order.	item			-	
			item				
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	BILL NO.13: PAINTING CARRIED TO SUMMARY			

BILL NO.14 SPECIALIST SERVICES (For Preambles see General Specification) Iten Description Quantity Rate <u>Amount</u> PRIME COST AND PROVISIONAL SUMS **BUILT IN CUPBOARDS** A Provide a provisional sum soil and concret cube testing executed complete. item 150.00 B Allow for profit and attendance item % **BILL NO.14: SPECIALIST SERVICES CARRIED TO SUMMARY**

F	FINAL SUMMARY			
Bill				
	<u>Trade</u>		<u>Page</u>	<u>Amount</u>
	PRELIMINARY AND GENERALLY (SEPARATE DOCUMEN ⁻	Γ)	19	
	FOUNDATIONS (PROVISIONAL)		8	
3	CONCRETE, FORMWORK AND REINFORCEMENT		10	
4	BRICKWORK		13	
5	ROOF COVERINGS		14	
6	CARPENTRY		15	
7	JOINERY AND IRONMONGERY		16	
8	METALWORK		17	
9	PLASTERING AND WALL LININGS		18	
10	PAVINGS, FLOOR COVERINGS, PLASTIC LININGS, ETC		19	
12	PLUMBING (PROVISIONAL)		20	ų.
13	PAINTING	ı	23	* .
14	SPECIALIST SERVICES		24	
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