ADDITIONAL WORKS: WATERLOO TRAINING SCH. REHABLITATION: KITCHEN, WATER SUPPLY & FENCING

ITEN	DESCRIPTION	UNIT	QTY	UNIT RATE	Assoure
NO		0.1.1	3	(LE)	AMOUNT
1.(KITCHEN OUSUBSTRUCTURE Excavation			(52)	(Le)
1.0	Excavate surfaces to remove top soil starting a ground level and maximum depth not exceedin 450mm and deposit in spoil heaps on site	at g m²	66		
1.0 1.0	B Extra over all excavations; excavating in rock	nt ot m³	20.		
	or other hard material require the use of compressed air machine or other rock breaking method	m³	5		
	Filling				
	Filling to excavations; selected excavated material deposited and compacted in layers	m³	8.5		
1.05	Ditto to make up levels below floors; selected excavated material	m³	9		
1.06	Ditto; imported excavated material off site	m³	10		
1.07	Ditto imported hardcore materials; 200mm thick	m³	7.9		;
	Surface Treatment				
1.08	Level and compact bottom of excavations	m²	7.5		
1.09	Sand blinding average 50mm thick on hardcore falling falling	m²	7.5		
	Disposal Remove surplus excavated from site	m³	5		
	Concrete Work in Foundation Plain in-situ concrete mix (1:3:6 -19mm aggregate) in as strip foundation	m³	5		
	otal to Substrucure B/D	 [-	- -		

WATERLOO TRAINING SCHOOL CORRECTIONAL CENTRE

. REHABLITATION: KITCHEN , WATER SUPPLY & FENCING

NO NO	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
	Total of substructure 8/F	├	ļ	(LE)	(Le)
	SUBSTRUCTURE CONTINUED	}			
1.12	Plain in-situ concrete mix (1:3:6 -19mm aggregate		ĺĺ	Í	
	in 150mm thick ground floor slab and ramp	m³	7.5	ĺ	
	Reinforced in-situ in column bases and columns in	<u>.</u>	ĺ	ĺ	
1.13	foundations including reinforcement and formwork	m ³	4		
}	FORMWORK				
	150mm of formwork right round the edge of the				
1.14	building	m²	5.53		
<u> </u>	Blockwork in foundation				
2	200mm thick solid Sandcrete block bedded and jointed		•		
1.15 j	n cement mortar (1:6)in foundation	m²	28		
1 1	12mm thick cement and sand (1:6) rendering in	ĺ	İ		
T'TO 4	oundation and solid (1.0) rendering in	m²	28	ĺ	
	SUBSTRUCTURE			F	
	CARRIED TO SUMMARY			ĺ	

WATERLOO TRAINING SCHOOL CORRECTIONAL CENTRE

NO NO	DESCRIPTION	UNIT	QTY	UNIT RATE (LE)	AMOUNT
2.00	CONCRETE WORK				<u> </u>
2.01	Reinforced in-situ concrete mix (1:2:4-19mm aggregate) in rectangular columns including reinforcement and formwork Ditto in beams and lintels		6 3.5		
2.03	CONCRETE WORK CARRIED TO SUMMARY				
3.00	BLOCKWORK				

BLOCKWORK CARRIED TO SUMMARY 4.00 ROOF Corrugated coloured aluzinc sheets, 28 gauge x 2400mm iong complete with all fixing accessories m² 65 600mm girth ridge/hip covering nailed to timber purlins to match roof covering m 30 ROOFING CARRIED TO SUMMARY 5.00 ROOF WOODWORK STRUCTURE Sawn hardwood timber treated with colored approve wood preservative, in 5.01 50 x 150mm Ridge/Hip board m 100 5.02 50 x 100mm Rafters m 200 5.03 50 x 100mm Wall plates m 70 5.04 50mm x 100mm Ceiling joist m 80 5.05 50mm x 100mm King posts m 10 Total of Roof Woodwork Structure 8/d	3.0	Precast sandcrete (1:6) solid blocks bedded an jointed in cement mortar (1:6) in 200mm thick walls	m²	11	8	
4.00 ROOF Corrugated coloured aluzinc sheets, 28 gauge x 2400mm long complete with all fixing accessories m² 65 600mm girth ridge/hip covering nailed to timber purlins to match roof covering m 30 ROOFING 4.03 ROOF WOODWORK STRUCTURE Sawn hardwood timber treated with colored approve wood preservative, in 5.01 50 x 150mm Ridge/Hip board m 100 5.02 50 x 100mm Rafters m 200 5.03 50 x 100mm Wall plates m 70 5.04 50mm x 100mm Ceiling joist m 80 5.05 50mm x 100mm Ceiling joist m 80 5.05 50mm x 100mm King posts		BLOCKWORK				
A.00 ROOF Corrugated coloured aluzinc sheets, 28 gauge x 2400mm long complete with all fixing accessories m² 65 600mm girth ridge/hip covering nailed to timber purlins to match roof covering m 30 ROOFING CARRIED TO SUMMARY 5.00 ROOF WOODWORK STRUCTURE Sawn hardwood timber treated with colored approve wood preservative, in 5.01 50 x 150mm Ridge/Hip board m 100 5.02 50 x 100mm Rafters m 200 5.03 50 x 100mm Wall plates m 70 5.04 50mm x 100mm Ceiling joist m 80 5.05 50mm x 100mm King posts	<u> </u>	SARTIED TO SUMMARY	1			
65 600mm girth ridge/hip covering nailed to timber purlins to match roof covering mailed to timber purlins m 30 ROOFING 4.03 ROOF WOODWORK STRUCTURE Sawn hardwood timber treated with colored approve wood preservative, in 100 5.01 50 x 150mm Ridge/Hip board m 100 5.02 50 x 100mm Rafters m 200 5.03 50 x 100mm Wall plates m 70 5.04 50mm x 100mm Ceiling joist m 80 5.05 50mm x 100mm King posts	4.0	ROOF			 	
ROOFING CARRIED TO SUMMARY 5.00 ROOF WOODWORK STRUCTURE Sawn hardwood timber treated with colored approve wood preservative, in 5.01 50 x 150mm Ridge/Hip board m 100 5.02 50 x 100mm Rafters m 200 5.03 50 x 100mm Wall plates m 70 5.04 50mm x 100mm Celling joist m 80 5.05 50mm x 100mm King posts	4.0	Corrugated coloured aluzinc sheets, 28 gauge 2400mm long complete with all fixing accessories	x m²	65	 	
4.03 CARRIED TO SUMMARY 5.00 ROOF WOODWORK STRUCTURE Sawn hardwood timber treated with colored approve wood preservative, in 5.01 50 x 150mm Ridge/Hip board m 100 5.02 50 x 100mm Rafters m 200 5.03 50 x 100mm Wall plates m 70 5.04 50mm x 100mm Celling joist m 80 5.05 50mm x 100mm King posts m 10	4.0	600mm girth ridge/hip covering nailed to timber purling to match roof covering		30		
4.03 CARRIED TO SUMMARY 5.00 ROOF WOODWORK STRUCTURE Sawn hardwood timber treated with colored approve wood preservative, in 5.01 50 x 150mm Ridge/Hip board m 100 5.02 50 x 100mm Rafters m 200 5.03 50 x 100mm Wall plates m 70 5.04 50mm x 100mm Celling joist m 80 5.05 50mm x 100mm King posts m 10		ROOFING		ĺ		
5.00 ROOF WOODWORK STRUCTURE Sawn hardwood timber treated with colored approve wood preservative, in 5.01 50 x 150mm Ridge/Hip board m 100 5.02 50 x 100mm Rafters m 200 5.03 50 x 100mm Wall plates m 70 5.04 50mm x 100mm Celling joist m 80 5.05 50mm x 100mm King posts	4.03	.				
Sawn hardwood timber treated with colored approve wood preservative, in 5.01 50 x 150mm Ridge/Hip board m 100 5.02 50 x 100mm Rafters m 200 5.03 50 x 100mm Wall plates m 70 5.04 50mm x 100mm Ceiling joist m 80 5.05 50mm x 100mm King posts			 	 	<u> </u>	
5.01 50 x 150mm Ridge/Hip board m 100	5.00	ROOF WOODWORK STRUCTURE	ĺ			
5.02 50 x 100mm Rafters m 200 5.03 50 x 100mm Wall plates m 70 5.04 50mm x 100mm Ceiling joist m 80 5.05 50mm x 100mm King posts m 10		Sawn hardwood timber treated with colored approve wood preservative, in				
5.03 50 x 100mm Wall plates m 70 5.04 50mm x 100mm Ceiling joist m 80 5.05 50mm x 100mm King posts m 10	5.01	50 x 150mm Ridge/Hip board	m	100		į
5.04 50mm x 100mm Ceiling joist m 80 5.05 50mm x 100mm King posts m 10	5.02	50 x 100mm Rafters	m	200	i	
5.05 50mm x 100mm King posts	5.03	50 x 100mm Wall plates	m	70		
	5.04	50mm x 100mm Ceiling joist	m	80	:	
			m İ	10	ļ	ļ

NO_	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
	Total of Roof woodwork structure b/f ROOF WOODWORK STRUCTURE CONTINUED			(LE)	(Le)
5.06	50mm x 75mm Struts and braces	m	85		
5.07	50 x 75mm purlins	m	400		
5.08	50mm x 75mm Ceiling noggings	m	90		
	Wrought hardwood timber, treated with clear approved wood preservative in				
5.09	25 x 225mm (finished) fascia/verge board	m	50		
5.10	12mm x 38mm wide cover strips	m	200		

5.11	ROOF STRUCTURE	1		<u> </u>	
	TO SOM CARRIED TO SUMMARY	<u>.</u> .	ĺ	İ	
b	METAL DOORS AND WINDOWS				
c 04	DOORS	1		}	
0.01	750mm wide x 2050mm high in two leaves metal	1			
	panel door with its accessories and six turn door lock]]	ļ	
i		No	1		
6.02	750mm wide x 2050mm high single metal panel	1			
,	door with its accessories and six turn door lock	. N-		ļ	
		No	[4]		
	WINDOWS			ĺ	
6.03	Provide vent windows made of double 5/8" diameter	}			
ļ	iron rods inside 50mm x 50mm RHS hollow pipe	į į			
ļi	at 76mm center to centre both vertically and	i		J	
ļ	horizontally direction with mosquito wire mesh		1	İ	
ļ	Dimension 1.5m wide x 1.5m high. The grilled-end	' i	İ	ĺ	
	pipes of 5/8" dia rod 200mm long enbeded in			1	
[1	l:2:4 - 12mm aggregate mix reinforced concrete	}		ļ	
a	all round the edges of the vent window			ļ	
}		No	4	1	
6.04 P	rovide 500mm wide x 1000mm high in two halves	ĺ			
n	netal panel window with 5/8* dia guard bars	ĺ			
ĺv	with heavy duty steel tower bolts ,hinge hasps				
a	nd staples in store	No.			
		No	1		
.05 N	NETAL DOORS AND WINDOWS CARRIED TO SUMMARY				

NO NO	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
7.00	PLUMBING INSTALLATION	<u> </u> 	 	(LE)	(Le)
	Plumbing and cold water installations in UPVC pipes and fittings including joints and support in the running length to the following				
7.01	W.C	No	1 1		
7.02	Shower unit	No	1		
7.03	W.B	No	1		
4	Appliance by approved manufacturer		ļ		
f	ĺ			ļ	

7.0	Vitreous China W.C suit complete with 9litre flushing cistern with float ball valve flexible connector ring sea 44 and cover	t			į
	425m x 535m vitreous china wash hand bear	No 1	1		
7.0	complete with fixing brackets, 1Nr 12m pillar tap plug, chain and stay with waste outgo	No	1		
7.06	Shower fittings complete with shower rose and floor waste	No	1		
7.07	150 x 150mm chromium plated soap holder plugged and screwed to blockwall	No	1		
7.08	450m x 600m polished mirror plugged and screwed to wall with mirror screws	No	1		
7.09	Toilet roll holder plugged and screwed to wall	No	1		
7.10	Towel rail; chromium plated, 600mm end brackets, plugged and screwed to blockwork	No	1		
7.11	PLUMBING INSTALLATION CARRIED TO SUMMARY				

NO NO	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
8.00 8.01 8.02 8.03	ELECTRICAL INSTALLATION This work is the continuation of the electrical installation works on the main building for inmates and officers Supply and erect 2.5mm² PVC insulated cables and PVC sheathed cables in concealed 20mm diameter PVC conduit in circuit wiring with all MK boxes and fittings from distribution board Ceiling light points Wall light point for security Switch socket outlet points	No No	4 4	(LE)	(Le)
8.05 1 8.06 1	FITTINGS AND ACCESSORIES L3 amps double switch socket outlet Lx36W (1200) corrosion resistant florescent light with all fittings complete ow energy bulbs for toilets	No No No No	3 4 3 2		

8.08	Supply and install the following boards, approved light fittings mains switch gear fuse etc and including 25mm² diameter concealed PVC conduits and wiring wiring Proteus TYPE B or similar approved 415/240 C 50HZ 100 Amp 8-way TP & N distribution board	No	1	
8.09	ELECTRICAL INSTALLATION CARRIED TO SUMMARY			
9.00	FLOOR, WALL AND CEILING FINISHINGS			
9.01	12mm thick cement and sand (1:4) rendering on walls (Internally and Externally)	m²	65	
İ l	31mm thick cement and sand (1:3) screeded bed laid level on concrete floor to receive ceramic floor tiles in kitchen and toilet	m²	36	
	FLOOR, WALLS, CEILING FINISHING b/d		-	

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
NO		ŀ		(LE)	(Le)
	FLOOR, WALLS, FINISHING B/F				1
	Tile Finishings			İ	
9.03	Non slip Porcelain floor tiles butt jointed straight				
	on the the sides 450mm x 450 x 10mm thick laid			[
	level on cement and sand bedding in kitchen floor				
	and toilet	m²	36		
	6mm thick glazed wall tiles fixed vertically on rendered		[-	
9.04	backing to walls in toilet	m²	28		
9.05	100mm wide ceramic skirting fixed vertically to walls	m²			
	2/6000 (5-11) - 1 - 1 - 1 - 1		50		
	3/4mm Ceiling hard board nailed to ceiling timber	m²	56		
9.07	50mm x 50mm treated hardwood noggins to ceiling	m	30		
0.00	7,000			 =	
9.08	FLOORS, WALLS, CEILING FINISHINGS CARRIED TO SUMMAR	lY .			
10.0	PAINTING AND DECORATING				
ŀ	Propers and apply and post norder and the				
	Prepare and apply one coat sealer and two coats emulsion paint on rendered walls (Internally and	İ			
10.01	Externally)	m²	236		

	1		1		
10.02	Ditto to soffit of hardboard ceiling	m²	45		
10,03	Prepare and apply one undercoat and two coats gloss paint on wood and metal doors and windows	m²	16		
10.04	Ditto on frames not exceeding 300m grith	m²	2		
10.05	Ditto but on fascia board	m²	9		
10.06	PAINTING AND DECORATING				
	CARRIED TO SUMMARY				
		Ì	Ţ		
11	COMPOSITE ITEM	ļ			1
11.01	Kitchen Worktop	1			
	Worktop in with wash hand basin and ceramic tile				
	finish comprising 100mm thick precast block as	}			
	support walls and partitions, 100mm thick				
-	reinforced concrete slab with timber cupboard	}			
	beneath basin and wall mounted above basin with			l i	
	plywood doors, timber frames, complete with lock,	Į			
	knob, hinges and painting overall size 7000mm		1		
	long x 600mm wide x 900mm high	item	 		
11.02	KITCHEN WORKTOP carried to summary	ــــــــــــــــــــــــــــــــــــــ	<u> </u>		

ITEM NO	DESCRIPTION	UNIT	QTY	UNIT RATE (LE)	AMOUNT (Le)
12	EXTERNAL WORKS				
	Aprons/Surface Water Drain				
12.01	Excavate surface to remove top soil staring at ground level and maximum depth not exceeding 750mm and deposit excavated materials in spoil heaps on site	m³	17		
12.02	150mm thick laterite hardcore material laid to slight falls to receive concrete aprons	m²	30		
12.03	75mm thick plain in-situ concrete mix (1:3:6 -37mm aggregate) in aprons complete with formwork to edges	m³	3		
12.04	600mm x 600mm x 50mm thick pre-cast reinforced concrete cover slabs over drains to entrance/exit of building	No	3		

ab ea 12.05 thi	tandard U section open drain channels set 150mm bove ground complete with excavation and arthworks and laid to falls on and including 100mm lick concrete bed on sand base 75mm x 450mm deep concrete channels	8	
12.06	EXTERNAL WORKS CARRIED TO SUMMARY		

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT (Le)
NO_	SUMMARY OF KITCHEN COST				
1.00	SUBSTRUCTURE			<u>;</u>	
2.00	CONCRETE WORKS	}		1	
3.00	BLOCKWORK				
4.00	ROOFING				
5.00	ROOFING WOODWORK STRUCTURE				
6.00	METAL DOORS AND WINDOWS				
7.00	PLUMBING INSTALLATION				
8.00	ELECTRICAL INSTALLATION				
9.00	FLOOR, WALL, AND CEILING FINISHINGS	;			
10.00	PAINTING & DECORATION				
11.00	COMPOSITE ITEM				
12.00	EXTERNAL WORKS	5			
13.00	TOTAL KITCHEN CONSTRUCTION				1
13.0	CONTINGENCY 5%				

	13.02	TOTAL KITCHEN CONSTRUCTION COST CARRIED TO SUMMAR	Y		
Ì				 	

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
NO				(LE)	(Le)
	· ·			!	
14.00	WATER SUPPLY				
	CONSTRUCT WATER TOWER OF REINFORCED				ļ
	CONCRETE, PROVIDE 10,000 LITRES PLASTIC WATER				
	TANK AND DRILL BOREHOLE AND PROVIDE PIPE				
	NETWORK FROM BOLE HOLE TO WATER TANK				
	PROVIDE SUBMERSIBLE PUMP & GENERATOR				
	TO PUMP THE WATER FROM THE BOREHOLE TO				İ
	THE WATER TANK ON THE REINFORCED CONCRETE		1	ļ	
	WATER TOWER				
14.01	Drilling of Borehole including pipes and		1		
	connection accessories from Borehole to water				
}	tank	item	1		
14.02	Provide high pressure submersive water pump			}	
	(2.5HP) with the necessary fittings to supply			Ì	1
	water from the borehole the water tank on top	1			
	of the concrete water tower for onwards		ļ		
	distributions to kitchen, staff offices and cells	item	1		
14.03	Provide materials and construct a reinforced				
	concrete water tower 2.4m x 2.4m by 6m high		Ì		
ļ	to the take the weight of 10,000 litres water				
į	stored in a milia PVC tank	item	1	ļ	
14.04	Provide and install 10,000 litres black milla water				
	storage tank on to of the reinforced concrete				
	water tank constructed	item	1		
14.0	Provide high pressured water pipes and fittings		-		
	to supply water through gravity from the Milla	ļ			
	water tank on top of the reinforced concrete				
	water tower to cells, kitchen, and staff offices	item	1		
14.0	6 Provide 5 KVA diesel electrical generator to be with the				
	submersible pump to send water to the water tank	item	1		
14.0	6 TOTAL WATER SUPPY WORKS				
,	7 CONTINGENCY 5%		ļ		
14.0	8 WATER SUPPLY CARRIEDB TO SUMMARY		<u></u>		<u> </u>

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
NO				(LE)	(Le)
15.00	SECURITY FENCE CONSTRUCTION			:	Ì
15.01	Excavate trenches to receive foundation starting from strip level to a maximum depth of 1000mm	m ³	191		
15.02	Fill Fill the excavated area and compact round the blockwork and columns up to grand level	m ³	88		
	Concrete work in Foundation & Columns		,		
15.03	Plain insitu concrete mix (1:3:6 - 19mm dia aggregates as strip foundation	m³	46		
15.04	Reinforced concrete (1:2:4 -19mm dia aggregates) in columns and column bases	m³ {	68		
15.05	Crossed reinforced concrete beam midway of fence height (1:2:4 - 19mm dia aggregates) with cross-section of 300mm x300mm including 100mm thick spread on top of the fence blockwork	m³	34		
	Reinforcement	ļ			
15.0	6 12mm dia rods in column and column bases	tonne	3.2	2	
15.0	7 12mm dia rod in cross beam	tonne	1.5	5	
15.0	8 6mm dia rods as stirrups in columns, cross-beam and coping at the top of fence	tonne	1.4	4	<u> </u>
	Formwork				
15.0	9 Formwork in column and column bases	m²	82	4	
15.1	0 Formwork in cross-beam	m ²	20	o	:
15.1	1 Blockwork in Fence: Provide sancrete blocks made of 1:8 mix and install with 1:6 mix from strip foundation to height 5m above natural ground level	m ²	1,61	3	
	FENCE WORK B/D		<u> </u>		

ADDITIONAL WORKS: WATERLOO TRAINING SCH. REHABLITATION: KITCHEN, WATER SUPPLY & FENCING

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
NO				(LE)	(Le)
	FENCE WORK CONTINUED				
	Fence work b/f		;		
	<u>Gate</u>				
15.12	Provide and install steel plate gate 6m wide in				
	two halves with all the accessories (tower bolts,		·	ĺ	
	hinges , locks to security specification) as				
	specified in the drawings and directed by the				
	supervising engineer	item	1		
	Security razor wire installation				
15.13	Provide Y shapes 16mm diameter rods as shown on the			1	
	drawing and bed them in each column to anchor	No	109		
	the rezor blade wire				
15.14	Provide 450mm diameter razor blade security wire and				
	install on top of fence wall using the 16mm Y shaped	m	324		
	rods as anchor		ļ		
15.15	SECURITY FENCE CONSTRUCTION WORKS		İ		
15.16	CONTINGENCY 5%		ļ		į
15.17	TOTAL FENCE CONSTRUCTION WORK carried to summary			=	

WATERLOO TRAINING SCHOOL CORRECTIONAL CENTRE

NO NO	DESCRIPTION	UNIT	QTY	UNIT RATE (LE)	AMOUNT (Le)
16.00	SUMMARY		ļ		
16,01 KITC	HEN CONSTRUCTION				
16.02 WAT	ER SUPPLY SYSTEM	,	<u> </u>		

16.03	SECURITY FENCING			
	TOTAL COSTS FOR ADDITIONAL WORKS FOR WATERLOO TRAINING SCHOOL:	Į.		
		-	<u> </u>	











