	PROPOSED CIVIL WORKS AT SAGANA 33/11 KV				
	SUBSTATION				
	DILL OF OLLANDIPLEC				
	BILL OF QUANTITIES ELEMENT NO. 1				
ITEM	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
NO.	<u>DESCRIPTION</u>	01111	<u>VII</u>	UNITRATE	AMOUNT
1	<u>Preliminaries</u>				
A	Allow for a temporary site office adequate to accommodate ten persons, notice board, shelves, and store for materials and tools storage: MIN 10m x 5m	ITEM	1		
В	Allow for clean water for the works	ITEM	1		
С	Allow for all the necessary statutory approvals for the works, drawings, by relevant County Government authorizaties, replication of drawings to required formats, endorsement by relevat proffessional persons and submit drawings to client before work commencement.	ITEM	1		
D	Allow for temporary sign post for the proposed works and permanent sign post as described.	ITEM	1		
Е	Recover existing fence and hand over to client and secure as per KPLC designaated store/ location/area and reuse 50m of the chainlink and its post and fixing as required.	ITEM	1		
F	Allow for security and insurance for the proposed works	ITEM	1		
G	Allow for keeping all excavations water free by pumping, bailing or otherwise.	ITEM	1		
Н	Allowfor testing of all materials at the ministry of works and provide for the certificate before the use of the material.	ITEM	1		
I	Allow for supply of power connection for use for the works.	ITEM	1		
J	Allow for a qualified personel conversant with Kenya Power safety regulations for the entire contract period	ITEM	1		
K	Allow for prompt communication and updates facilitation to client supervision team	ITEM	1		
L	Allow for temporary toilet for the workers and to be recovered after completion of the works.	ITEM	1		
М	Allow for National Construction Authority (NCA) Project registration fee for onward submission on behalf of the clients. This is 0.5% of the value of contract.(at summary page)	ITEM	1		
	ELEMENT NO. 2				
1	CIVIL WORKS				
1	Switch yard				
	Total carried to summarry				

NO. A Clear working area/site of existing ballastrubbles.shrubs and any other vegetation including burning and carting away the arising.	ITEM	DESCRIPTION	<u>UNIT</u>	QTY	UNIT RATE	<u>AMOUNT</u>
B Excavate/Scoop top vegetable soil average depth 200mm and cart way to local authority designated damping site		ballast,rubbles,shrubs and any other vegetation	SM	1950		
compacted imported and approved murram/gravel fill, compacted in layers of 150mm thick using a plate compactor to receive ballast to gradual slope terminating at srorm drain D Prepare and apply Gradiator 4TC or equal and approved insecticide to surfaces of blinding as per Manufacturer's written instructions E Apply suitable and approved weed killer, herbicide to surfaces of blinding as per the Manufacturer's written instructions and guarrantee and provide a copy to client. F 1000 gauge polythene or other equal and approved mebrane laid on compacted and treated surface with welted laps of 200mm wide. G Supply and spread uniformly 150mm thick linch (1") SM 1640 ballast in switchyard H Provide 150x250mm high precast concrete or insitu channel along the edges of invert drain block to secure from falling ballast. 2 ACCESS ROAD AND PARKING AREA A Excavate for access road depth not exceeding 500mm and cart away the spoil B Backfill with selected well compacted hardcore fill, compacted in layers of 150mm thick using 10 tonne vibrating roller to receive paving blocks C 50mm thick approved and well compacted quarry dust blinding on hardcore surfaces D Heavy duty industrial concrete paving blocks size (210x105x80mm) minimum strength 49N/mm square laid to slope on quarry dust and compacted E 125 x 250 mm Splayed kerb to BS 340 including 125 x LM 155 150 100 mm channel on and including concrete Class 'E foundation and 100 mm haunching to back of a kerb including all necessary excavation, formwork and disposal. F Ditto curved to plan. LM 30 Extra over for junction between straight and curved NO 12	В	Excavate/Scoop top vegetable soil average depth 200mm and cart way to local authority designated	CM	400		
approved insecticide to surfaces of blinding as per Manufacturer's written instructions E Apply suitable and approved weed killer, herbicide to surfaces of blinding as per the Manufacture's written instructions and guarrantee and provide a copy to client. F 1000 gauge polythene or other equal and approved mebrane laid on compacted and treated surface with welted laps of 200mm wide. G Supply and spread uniformly 150mm thick linch (1") SM 1640 ballast in switchyard H Provide 150x250mm high precast concrete or insitu channel along the edges of invert drain block to secure from falling ballast. 2 ACCESS ROAD AND PARKING AREA A Excavate for access road depth not exceeding 500mm and cart away the spoil B Backfill with selected well compacted hardcore fill, compacted in layers of 150mm thick using 10 tonne vibrating roller to receive paving blocks C 50mm thick approved and well compacted quarry dust blinding on hardcore surfaces D Heavy duty industrial concrete paving blocks size (210x105x80mm) minimum strength 49N/mm square laid to slope on quarry dust and compacted E 125 x 250 mm Splayed kerb to BS 340 including 125 x LM 100 mm channel on and including concrete Class 'E' foundation and 100 mm haunching to back of a kerb including all necessary excavation, formwork and disposal. F Ditto curved to plan. LM 30 G Extra over for junction between straight and curved NO 12	С	compacted imported and approved murram/gravel fill, compacted in layers of 150mm thick using a plate compactor to receive ballast to gradual slope	СМ	1950		
surfaces of blinding as per the Manufacture's written instructions and guarrantee and provide a copy to client. F 1000 gauge polythene or other equal and approved mebrane laid on compacted and treated surface with welted laps of 200mm wide. G Supply and spread uniformly 150mm thick 1inch (1") SM 1640 ballast in switchyard H Provide 150x250mm high precast concrete or insitu channel along the edges of invert drain block to secure from falling ballast. 2 ACCESS ROAD AND PARKING AREA A Excavate for access road depth not exceeding 500mm and cart away the spoil B Backfill with selected well compacted hardcore fill, compacted in layers of 150mm thick using 10 tonne vibrating roller to receive paving blocks C 50mm thick approved and well compacted quarry dust blinding on hardcore surfaces D Heavy duty industrial concrete paving blocks size (210x105x80mm) minimum strength 49N/mm square laid to slope on quarry dust and compacted E 125 x 250 mm Splayed kerb to BS 340 including 125 x 100 mm channel on and including concrete Class 'E' foundation and 100 mm haunching to back of a kerb including all necessary excavation, formwork and disposal. F Ditto curved to plan. LM 30 Extra over for junction between straight and curved NO 12	D	approved insecticide to surfaces of blinding as per	SM	1950		
mebrane laid on compacted and treated surface with welted laps of 200mm wide. G Supply and spread uniformly 150mm thick linch (1") SM 1640 ballast in switchyard H Provide 150x250mm high precast concrete or insitu channel along the edges of invert drain block to secure from falling ballast. 2 ACCESS ROAD AND PARKING AREA A Excavate for access road depth not exceeding 500mm and cart away the spoil B Backfill with selected well compacted hardcore fill, compacted in layers of 150mm thick using 10 tonne vibrating roller to receive paving blocks C 50mm thick approved and well compacted quarry dust blinding on hardcore surfaces D Heavy duty industrial concrete paving blocks size (210x105x80mm) minimum strength 49N/mm square laid to slope on quarry dust and compacted E 125 x 250 mm Splayed kerb to BS 340 including 125 x 100 mm channel on and including concrete Class 'E' foundation and 100 mm haunching to back of a kerb including all necessary excavation, formwork and disposal. F Ditto curved to plan. LM 30 Extra over for junction between straight and curved NO 12	Е	surfaces of blinding as per the Manufacture's written instructions and guarrantee and provide a copy to	SM	1950		
ballast in switchyard H Provide 150x250mm high precast concrete or insitu channel along the edges of invert drain block to secure from falling ballast. 2 ACCESS ROAD AND PARKING AREA A Excavate for access road depth not exceeding 500mm and cart away the spoil B Backfill with selected well compacted hardcore fill, compacted in layers of 150mm thick using 10 tonne vibrating roller to receive paving blocks C 50mm thick approved and well compacted quarry dust blinding on hardcore surfaces D Heavy duty industrial concrete paving blocks size (210x105x80mm) minimum strength 49N/mm square laid to slope on quarry dust and compacted E 125 x 250 mm Splayed kerb to BS 340 including 125 x LM 155 100 mm channel on and including concrete Class 'E' foundation and 100 mm haunching to back of a kerb including all necessary excavation, formwork and disposal. F Ditto curved to plan. G Extra over for junction between straight and curved NO 12	F	mebrane laid on compacted and treated surface with	SM	1640		
channel along the edges of invert drain block to secure from falling ballast. 2 ACCESS ROAD AND PARKING AREA A Excavate for access road depth not exceeding 500mm and cart away the spoil B Backfill with selected well compacted hardcore fill, compacted in layers of 150mm thick using 10 tonne vibrating roller to receive paving blocks C 50mm thick approved and well compacted quarry dust blinding on hardcore surfaces D Heavy duty industrial concrete paving blocks size (210x105x80mm) minimum strength 49N/mm square laid to slope on quarry dust and compacted E 125 x 250 mm Splayed kerb to BS 340 including 125 x 100 mm channel on and including concrete Class 'E' foundation and 100 mm haunching to back of a kerb including all necessary excavation, formwork and disposal. F Ditto curved to plan. LM 30 G Extra over for junction between straight and curved NO 12	G		SM	1640		
A Excavate for access road depth not exceeding 500mm and cart away the spoil B Backfill with selected well compacted hardcore fill, compacted in layers of 150mm thick using 10 tonne vibrating roller to receive paving blocks C 50mm thick approved and well compacted quarry dust blinding on hardcore surfaces D Heavy duty industrial concrete paving blocks size (210x105x80mm) minimum strength 49N/mm square laid to slope on quarry dust and compacted E 125 x 250 mm Splayed kerb to BS 340 including 125 x 100 mm channel on and including concrete Class 'E' foundation and 100 mm haunching to back of a kerb including all necessary excavation, formwork and disposal. F Ditto curved to plan. CM 400 400 EM 400 SM 580 SM 580 SM 580 SM 580 LM 155	Н	channel along the edges of invert drain block to secure	LM	186		
and cart away the spoil B Backfill with selected well compacted hardcore fill, compacted in layers of 150mm thick using 10 tonne vibrating roller to receive paving blocks C 50mm thick approved and well compacted quarry dust blinding on hardcore surfaces D Heavy duty industrial concrete paving blocks size (210x105x80mm) minimum strength 49N/mm square laid to slope on quarry dust and compacted E 125 x 250 mm Splayed kerb to BS 340 including 125 x 100 mm channel on and including concrete Class 'E' foundation and 100 mm haunching to back of a kerb including all necessary excavation, formwork and disposal. F Ditto curved to plan. CM 400 400 400 580 580 580 580 580	2					
compacted in layers of 150mm thick using 10 tonne vibrating roller to receive paving blocks C 50mm thick approved and well compacted quarry dust blinding on hardcore surfaces D Heavy duty industrial concrete paving blocks size (210x105x80mm) minimum strength 49N/mm square laid to slope on quarry dust and compacted E 125 x 250 mm Splayed kerb to BS 340 including 125 x 100 mm channel on and including concrete Class 'E' foundation and 100 mm haunching to back of a kerb including all necessary excavation, formwork and disposal. F Ditto curved to plan. C Extra over for junction between straight and curved NO 12	A	1 0	CM	295		
blinding on hardcore surfaces D Heavy duty industrial concrete paving blocks size (210x105x80mm) minimum strength 49N/mm square laid to slope on quarry dust and compacted E 125 x 250 mm Splayed kerb to BS 340 including 125 x 100 mm channel on and including concrete Class 'E' foundation and 100 mm haunching to back of a kerb including all necessary excavation, formwork and disposal. F Ditto curved to plan. C Extra over for junction between straight and curved NO 12	В	compacted in layers of 150mm thick using 10 tonne	CM	400		
(210x105x80mm) minimum strength 49N/mm square laid to slope on quarry dust and compacted E 125 x 250 mm Splayed kerb to BS 340 including 125 x 100 mm channel on and including concrete Class 'E' foundation and 100 mm haunching to back of a kerb including all necessary excavation, formwork and disposal. F Ditto curved to plan. LM 30 G Extra over for junction between straight and curved NO 12	С	* * *	SM	580		
100 mm channel on and including concrete Class 'E' foundation and 100 mm haunching to back of a kerb including all necessary excavation, formwork and disposal. F Ditto curved to plan. LM 30 G Extra over for junction between straight and curved NO 12	D	(210x105x80mm) minimum strength 49N/mm square	SM	580		
G Extra over for junction between straight and curved NO 12	Е	100 mm channel on and including concrete Class 'E' foundation and 100 mm haunching to back of a kerb including all necessary excavation, formwork and		155		
	F	Ditto curved to plan.	LM	30		
	G		NO	12		
	<u> </u>					
Total carried to summarry		Total carried to summarry				

ITEM	DESCRIPTION	UNIT	<u>QTY</u>	UNIT RATE	<u>AMOUNT</u>
NO.	GRAVELLING (Access road)-entry				
Н	Excavate commencing from stripped level depth not	CM	8		
11	exceeding 900mm deep for piped culvert and cart way	CIVI	o		
	the spoil				
I	50mm thick plain concrete blinding to make up levels	SM	15		
1	for the precast culvet	SIVI	13		
J	Supply and install 600mm internal diameter concrete				
J	pipe culvert and headwall as per drwg.	LM	16		
K	Vibrated mass concrete class 20/25 (1:2:4) in culvert	LIVI	10		
K	surrounding thickness 200mm including head and wing	CM	20		
	wall	CIVI	20		
L	Excavate commencing from ground level 6metres wide	CM	73		
L	access road and not exceeding 300mm deep and cart	CIVI	13		
	way the spoil				
M	Hand pack and compact hardcore to external road	CM	73	+	
1V1	section to main road	CIVI	13		
N	Approved murrum fill well compacted with vibratory	CM	73		
1	rollers in 150mm thick layers to above road to	CIVI	13		
	engineers approval				
0	50mm surfacing of entry road with APPROVED	SM	240		
	gravell	SIVI	240		
	ROAD MARKING				
	Prepare surfaces and apply three coats of approved road marking paint: to				
A	Kerb stones and parking 75 to 150mm girth with Kenya	LM	150		
11	Power branded colours.	Livi	130		
	Cable ducts				
В	Supply and install 150mm diameter medium gauge	LM	48		
	PVC pipes as ducts for cables crossing the access road	Livi	40		
	and control room cable trench entrance location.				
С	Vibrated mass concrete class 20/25 (1:2:4) in pvc cable	CM	3		
	ducts surrounding.				
2	SWITCH YARD PLINTHES				
	Switchgear Foundation plinthes for the conversion				
	of following 33kv KPLC wooden structures steel,				
	to +150mm on new proposed bay consisting of 6nos				
	33KV &11KV busbar plinths-15nos,33kvA/B				
	switches, 2Nos.CBs plinthes, 10nos.33kvCTs, 9nos.				
	33kv VTS & 2nos.11KVA/B switch structure-2				
	legged; 33kv terminal post,5No. 33kv CB,4nos				
	lightening arrester plinthes, 2No. bus section				
	switch,16no.post insulator-2 leged; 2nos.NCT, as				
	per the General arrangement drawing(GA) and				
	all to structural engineers details.				
	Total carried to summarry				

ITEM NO.	DESCRIPTION	<u>UNIT</u>	<u>QTY</u>	UNIT RATE	<u>AMOUNT</u>
A A	Excavate foundation pits commencing from reduced	CM	150		
	level but not exceeding 1.5 m deep				
В	Ditto but not exceeding 3.0metres	CM	43		
C	Backfill and ram selected excavated material around	CM	68		
$\overline{}$	foundations				
D	Cart away surplus excavated materials from Site to	CM	30		
Б	municipal council designated damping site.	ITEM	1		
E F	Disposal of water and Strutting Blinding mix (1:4:8 - 50 mm)	SM	138		
G	Class 25(20) in foundations	CM	50		
Н	Class 25(20) in roundations Class 25(20) in stub col bases with face finishes	CM	80		
I	High yield reinforcement bars diameters 8 to16mm to	KG	5795		
1	bases and column	KO	3173		
J	Shuttering to columns stubs	SM	80		
K	Edges; 75 to 250 mm to plinths	SM	53		
L	grouting bolts /inserts and the like by holding in	NO	424		
	position when pouring concrete not exceeding 600mm				
	long-bolts supplied by client				
	13mm thick plaster (1:3mix) to top surface of	SM	53		
	foundations with smooth finish trowelled				
N	Attendance for KPLC staff to do earthing before all	ITEM	1		
	blinding including security for all copper strip edges				
	CABLE TRENCH				
	Trench (600x600mm deep) length approx.145 metres				
	at various locations				
Α	Excavate for trench from reduced level not exceeding	CM	110		
	1.5 metres deep and cart away	G3.5	110		
	Load, cart away from site excavated materials and	CM	110		
	dispose at areas designated by local authority.				
2	Trench bed				
	50mm plain concrete(1:4:8) blinding on cable trench	SM	132		
	Vibrated reinforced concrete class 20/20 1:2:4 as				
	described in;				
	150 4: 1 1	C) f	20		
D	150mm thick trench base	CM	20		
E F	150mm thick trench walls with fair face finish	CM	30		
r	150mm thick plain concrete haunching on laid 150mm diameter PVC cable ducts on road crossing.	CM	2		
	Gramotor 1 v C capic ducts off foad crossing.				
G	Supply and lay 150mm diameter medium gauge PVC	LM	48		
	ducts		-		
	Smooth formwork to				
Н	Sides of trench wall	SM	350		
	Total carried to summarry				

ITEM	DESCRIPTION	<u>UNIT</u>	QTY	UNIT RATE	AMOUNT
NO.	Steel reinforcement bars including tying bending				
	Steet reinforcement bars including tying bending				
	spacer blocks tying wires and fixing high tensile				
	I 12 BC 44/1				
	<u>bars to BS 4461</u>	V.C	2200		
I	Y 8mm at 150 centres in cable trench	KG	2300		
т .	Precast concrete trench covers	NO	405		
J	Provide and fix heavy duty galvanised (900x450x50mm) composite polymerresin cover (medium weight/m2 ultimate load capacity).	NO	495		
	Cable trays				
K	Supply and fix steel fabricated cable trays from 50x50x4mm thick angle iron frame, jointed together with 50x50x4mm thick galvanized flat iron bar to 600mm long pcs and place on top of angle iron spaced at 400 C/C to form cable tray and with 200mm high vertical trainglurar support stand spaced at 400mm C/C.		145		
L	Fabricate and fix standard primary substation gate with 16 gauge black sheet panels welded on 50x50x4mm square tubes and 75x75x4mm frame with 50mm diameter 6No. bushess as per the drawing SK. No.07044/B including excavation for the gate columns, concrete works, erection and 3 coats of 1st grade gloss paint .	NO	1		
M	Ditto but pedestrian gates	NO	1		
	Trench (1200x1200mm deep) length approx.210 metres at various locations for power cables.				
A	Excavate for trench from reduced level not exceeding 1.5 metres deep and cart away	CM	300		
В	Ditto but 900mm wide and 900mm deep for PVC cable ducts	CM	13		
С	Load, cart away from site excavated materials and dispose at areas designated by local authority.	CM	300		
2	Trench bed				
D	50mm plain concrete(1:4:8) blinding on cable trench	SM	280		
	Vibrated reinforced concrete class 20/20 1:2:4 as described in;				
Е	150mm thick trench base	CM	45		
F	150mm thick trench walls with fair face finish	CM	80		
G	150mm thick plain concrete haunching on laid 150mm diameter PVC cable ducts	CM	5		
	m () . 1 (
	Total carried to summarry				

ITEM	<u>DESCRIPTION</u>	<u>UNIT</u>	QTY	UNIT RATE	<u>AMOUNT</u>
NO.	Supply and lay 150mm diameter medium gauge PVC	1 1/1	06		
Н	ducts	LM	96		
	Smooth formwork to				
1	Sides of trench wall	SM	1030		
	Steel reinforcement bars including tying bending				
	spacer blocks tying wires and fixing high tensile				
	bars to BS 4461				
J	Y 8mm at 150 centres in cable trench	KG	5451		
	Precast concrete trench covers				
K	Provide and fix heavy duty galvanised (1500x450x50mm) composite polymerresin cover (medium weight/m2 ultimate load capacity).	NO	150		
	Cable trays				
L	Supply and fix steel fabricated cable trays from 50x50x4mm thick angle iron frame, jointed together with 50x50x4mm thick galvanized flat iron bar to 600mm long pcs and place on top of angle iron spaced at 400 C/C to form cable tray and with 200mm high vertical trainglurar support stand spaced at 400mm C/C.	LM	210		
4	1X23MVA TRANSFORMER PLINTH				
A	Excavate pit foundations not exceeding 1.8metres deep from reduced levels	CM	55		
В	Cart away from site surplus excavated materials	CM	55		
С	Plain concrete 50mmm thick blinding 1:4:8 to footing	SM	35		
	<u>Vibrated Reinforced Concrete Class 25/20 mm</u> Aggregate in:-				
D	Base	CM	10		
Е	PEDESTALS	CM	16		
F	COVER SLAB-300mm thick	CM	18		
	<u>High Tensile Steel Reinforcement Bars; Cold</u> Worked to BS 4461 (Provisional)				
G	8 mm diameter	KG	200		
Н	12 mm diameter	KG	2550		
	Fairface Formwork to:-				
I	Sides of base 225-300mm wide	LM	15		
J	Ditto slab	LM	16		
K	Vertical sides of footing	SM	24		
	Hardcore filling				
L	Approved hardcore filling compacted to Engineer's approval	CM	12		
M	Blind surface of hardcore with lean concrete	SM	23		
	Total carried to summarry				

ITEM	DESCRIPTION	<u>UNIT</u>	<u>QTY</u>	UNIT RATE	<u>AMOUNT</u>
NO. N	1000 gauge polythene sheet laid over hardcore	SM	23		
	SUMP RCC WALLING				
	Mass insitu concrete (1:4:8) in:-				
A	Strip footing	SM	16		
	<u>Vibrated Reinforced Concrete Class 25/20 mm</u> Aggregate in:-				
В	Base	CM	9		
С	Walling finished fair face	CM	10		
	Formwork				
D	Vertical sides of base	SM	50		
Е	Vertical sides of walling	LM	56		
	High Tensile Steel Reinforcement Bars; Cold Worked to BS 4461 (Provisional)				
F	8 mm diameter	KG	300		
G	10 mm diameter	KG	400		
Н	Supply and fix fabicated heavy duty grating with	ITEM	1		
	deformed R16 bar at 10mm centres, welded on 50x50x4mm angle lines anchored to contrete with 10mm inserts; well primered base coat and final zinc- chromate paint to cover the				
	transformer oil spillage sump.				
I	OIL sump chamber 2m x 5m x 2m deep; perimeter 200mm thick block walling; internal plaster complete with niru finish; with ring beam at every 2m interval 250x200mm with 4 nos.12mm bars and 8mm shear links at 200mm spacing; cover slab with manhole opening 150mm reinforced with 8mm steel bothways at 150mm spacing; heavy duty steel cover; including pvc pipe 4"connecting with the main transformer pit not exceeding 6m awayin two compartments		1		
K	Provide galvanized 125 x 75mm U Channels welded to triangular shape (1.5x1.2x1.9metres); placed in reinforced concrete size, 1.0x1.0metres), with approx. of the tip exposed above the concrete, including 50mm diameter hole drilled on exposed section.	NO	2		
	ELEMENT NO.3-BUILDING WORKS				
	CONTROL ROOM 24M X 10M				
A	Excavate oversite vegetable soil average depth 150mm and cart away.	SM	280		
В	Excavate for strip foundation trench 1m wide commencing at reduced level and not exceeding 1.5m deep.	CM	190		
С	Ditto exceeding 1.5m but n.e 3m.	CM	81		
D	Excavations for column base size (1.5x1.5)m	CM	71		
	Total carried to summarry				

ITEM	<u>DESCRIPTION</u>	<u>UNIT</u>	QTY	UNIT RATE	AMOUNT
NO. E	Ditto exceeding 1.5m but n.e 3m.	CM	71		
F	Extra over excavation for excavating in hard rock	CM	7		
G	Allow for keeping all excavations water free by	ITEM	1		
	pumping, bailing or otherwise.	112111	-		
Н	Fill in and ram selected imporrted materials around	CM	150		
	foundations and column bases.				
I	Load cart away surplus excavated materials and	CM	81		
	dispose in areas designated by local authority				
J	400mm thick bed of selected hard-core well compacted	CM	115		
	in layers n.e 150mm thick blinded with fine material				
	50mm thick to receive damp proof membrane (m.s)				
K	150mm thick approved murram blinding well	CM	43		
	compacted,watered and rolled to client satisfactory				
L	Gladiator 4TC or equal and approved insectiside	SM	288		
	treatment to hardcore blinded surface and around entire				
	building.				
M	1000 gauge polythene or other equal and approved	SM	260		
	membrane as DPM laid on top of blinded hardcore				
	(m.s) with welted laps of 200mm wide.				
N.	5 0 411 11 4 (140) 11 11 11 11	CD 4	1.45		
N	50mm thick plain concrete (1:4:8) blinding in strip foundation and columns bases	SM	145		
	Vibrated reinforced class20/25 1:2:4/25 as described in:				
О	Strip foundation (600x250)mm	CM	18		
P	Column bases size (1000x1000x250)mm	CM	10		
Q	Columns footing size (250x250)mm	CM	3		
R	150mm thick concrete slab on damp proof	SM	260		
	membrane(m.s)				
	High yield mild steel reinforcement from 8mm to				
	12mm including cutting, bending, spacers, tying				
	wire and fixing to BS 4460 in, strip foundation,				
	column base, footing and cable trenches.				
S	Y 12	KG	500		
	Y 10	KG	350		
U	Y8	KG	370	+	
V	Steel wire fabric mesh reinforcement to B.S.4483 Ref	SM	260	+	
	BRC No.A142 in concrete bed (M.S) including	SIVI	200		
	200mmlaps ,all necessary trying wire and supporting as				
	required.				
	Sawn formwork to;				
W	Sides of column bases girth not exeed 250mm	LM	90		
X	Sides of column size 250 x 250mm	SM	75		
Y	Sides of strip foundation,200mm high	LM	245		
	Total carried to summarry				

Sides of floor slab 150-200mm girth LM 75	ITEM NO.	<u>DESCRIPTION</u>	<u>UNIT</u>	QTY	UNIT RATE	<u>AMOUNT</u>
Foundation walling A 225mm thick approved natural stone walling bedded and jointed in morter (1:3) CABLE TRENCH Trench 120mm wide x1200mm deep-length 100metres at veroius locations. B Bulk excuvation for trench 1.8m wide from reduced level not exceeding 1.2m deep. C Load cart away surplus excavated materials and dispose in areas designated by local authority D Fill in and ram selected backfill materials around trench. SUNDRIES E Make holes on 200mm masonry wall and 150mm thick concrete cable trench wall for 200mm diameter heavy duty PVC able ducts. F Provide and lay 200mm diameter heavy duty PVC ducts average length 2000mm including haunching with 150mm thick (1:3:6) concrete. G Ditto but 150mm No 12 Trench bed I 50mm thick plain concrete (1:4:8) blinding in cable trench bed 1.5m wide. Vibrated reinforced concrete class 20/20 1:2:4/20 as described in; J In 150mm thick vertical walls CM 40 K In 150mm thick vertical walls CM 40 Steel reinforcement bars including cutting, bending, spacer blocks, tying wires and fixing. High tensile bars to BS 4461:8mm bars to: M Y8mm in cable trench N Excavater from reduced level not exceeding 1.5x0.8m wide O Load cart away surplus excavated materials around the trench. Trench bed Trench bed CM 30 CM 80 Vibration and an approach of the tensile bars to BS 4461:8mm bars to: M Y8mm in cable trench N Excavate from reduced level not exceeding 1.5x0.8m wide O Load cart away surplus excavated materials and dispose in areas designated by local authority P Fill in and ram selected imporred materials around the trench. Trench bed		Sides of floor slab 150-200mm girth	LM	75		
A 225mm thick approved natural stone walling bedded and jointed in morter (1:3) CABLE TRENCH Trench 1200mm wide x1200mm deep-length 100metres at veroins locations. B Bulk excuvation for trench 1.8m wide from reduced level not exceeding 1.2m deep. C Load cart away surplus excavated materials and dispose in areas designated by local authority D Fill in and ram selected backfill materials around trench. SUNDRIES E Make holes on 200mm masonry wall and 1.50mm thick concrete cable trench wall for 200mm diameter heavy duty PVC ducks average length 2000mm including haunching with 150mm thick (1:3:6) concrete. G Ditto but 150mm NO 18 Trench bed I 50mm thick plain concrete (1:4:8) blinding in cable trench bed 1.5m wide. Vibrated reinforced concrete class 20/20 1:2:4/20 as described in; J In 150mm thick vertical walls K In 150mm thick vertical walls K In 150mm thick wertical walls K In 260m thick wertical walls K In 150mm thick wertical walls CM 40 Steet reinforcement bars including cutting, bending, spacer blocks, tying wires and fixing. High tensile bars to BS 4461: 8mm bars to: M Y8mm in cable trench N Excavate from reduced level not exceeding 1.5x0.8m wide O Load cart away surplus excavated materials and dispose in areas designated by local authority P Fill in and ram selected imporred materials around the trench bed						
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trench bed 1.5m wide. Vibrated reinforced concrete class 20/20 1:2:4/20 as described in; J In 150mm thick trench base with smooth steel finish CM 30 K In 150mm thick vertical walls CM 40 Fairface formwork to L Sides of trench wall SM 260 Steel reinforcement bars including cutting, bending, spacer blocks, tying wires and fixing. High tensile bars to BS 4461: 8mm bars to: M Y8mm in cable trench KG 3832 Trench (600x600mm deep)length 60meter N Excavate from reduced level not exceeding 1.5x0.8m wide O Load cart away surplus excavated materials and dispose in areas designated by local authority P Fill in and ram selected imporrted materials around the trench. Trench bed						
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described in; J In 150mm thick trench base with smooth steel finish CM 30 K In 150mm thick vertical walls CM 40 Fairface formwork to L Sides of trench wall SM 260 Steel reinforcement bars including cutting, bending, spacer blocks, tying wires and fixing. High tensile bars to BS 4461: 8mm bars to: M Y8mm in cable trench KG 3832 Trench (600x600mm deep)length 60meter N Excavate from reduced level not exceeding 1.5x0.8m wide O Load cart away surplus excavated materials and dispose in areas designated by local authority P Fill in and ram selected imporrted materials around the trench. Trench bed						
J In 150mm thick trench base with smooth steel finish CM 30						
K In 150mm thick vertical walls Fairface formwork to L Sides of trench wall SM 260 Steel reinforcement bars including cutting, bending, spacer blocks, tying wires and fixing. High tensile bars to BS 4461: 8mm bars to: M Y8mm in cable trench Trench (600x600mm deep)length 60meter N Excavate from reduced level not exceeding 1.5x0.8m wide O Load cart away surplus excavated materials and dispose in areas designated by local authority P Fill in and ram selected imporrted materials around the trench. Trench bed	т .		CM	20		
Fairface formwork to L Sides of trench wall Steel reinforcement bars including cutting, bending, spacer blocks, tying wires and fixing. High tensile bars to BS 4461: 8mm bars to: M Y8mm in cable trench KG 3832 Trench (600x600mm deep)length 60meter N Excavate from reduced level not exceeding 1.5x0.8m wide O Load cart away surplus excavated materials and dispose in areas designated by local authority P Fill in and ram selected imporrted materials around the trench. Trench bed	J	In 150mm thick trench base with smooth steel finish	CM	30		
Fairface formwork to L Sides of trench wall Steel reinforcement bars including cutting, bending, spacer blocks, tying wires and fixing. High tensile bars to BS 4461: 8mm bars to: M Y8mm in cable trench KG 3832 Trench (600x600mm deep)length 60meter N Excavate from reduced level not exceeding 1.5x0.8m wide O Load cart away surplus excavated materials and dispose in areas designated by local authority P Fill in and ram selected imporrted materials around the trench. Trench bed	V	In 150mm think westing wells	CM	40		
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spacer blocks, tying wires and fixing. High tensile bars to BS 4461: 8mm bars to: M Y8mm in cable trench KG 3832 Trench (600x600mm deep)length 60meter N Excavate from reduced level not exceeding 1.5x0.8m wide O Load cart away surplus excavated materials and dispose in areas designated by local authority P Fill in and ram selected imporrted materials around the trench. Trench bed	L		SIVI	260		
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Trench (600x600mm deep)length 60meter N Excavate from reduced level not exceeding 1.5x0.8m	M	Y8mm in cable trench	KG	3832		
N Excavate from reduced level not exceeding 1.5x0.8m CM 80 wide O Load cart away surplus excavated materials and dispose in areas designated by local authority P Fill in and ram selected imported materials around the trench. Trench bed						
wide O Load cart away surplus excavated materials and dispose in areas designated by local authority P Fill in and ram selected imported materials around the trench. Trench bed Wide Wid	N		CM	80		
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dispose in areas designated by local authority P Fill in and ram selected imported materials around the trench. Trench bed dispose in areas designated by local authority CM 30 trench.	О	Load cart away surplus excavated materials and	CM	80		
trench. Trench bed		dispose in areas designated by local authority				
Trench bed	P	Fill in and ram selected imporrted materials around the	CM	30		
		trench.				
Q 50mm plain concrte(1:3:6)blinding cable trenches bed SM 60		Trench bed				
	Q	50mm plain concrte(1:3:6)blinding cable trenches bed	SM	60		
Total carried to summarry		Total carried to summarry				

ITEM	DESCRIPTION	<u>UNIT</u>	<u>QTY</u>	UNIT RATE	<u>AMOUNT</u>
NO.	Vibrated reinforced concrete class 20/20 1:2:4/20 as				
	described in;				
S	In 150mmthick trench base	CM	10		
T	In 150mm thick vertical walls	CM	15		
	Sawn formwork to;				
U	Sides of trench walls	SM	150		
	Steel reinforcement bars including cutting, bending,				
	spacer blocks, tying wires and fixing. High tensile bars to BS 4461: 8mm bars to:				
V	Y8mm in cable trench	KG	936		
W	50X50X4mm angle line embedded in concrete cable trench edges.	LM	160		
	Chequered plate cover(internal cable trenches)				
X	1200x400mmx5mm thick chequered plate covers reinforced with 40x40mmx3mm thick SHS all around primed and apply 3 coats of first quality gloss paint.	NO	60		
Y	50mm plain concrte(1:3:6)blinding cable trenches bed	SM	60		
	ELEMENT 2-SUPERSTRUCTURE WORKS.				
1	Walling.				
A	Pluvex No.1 or other equal and approved bituminousdamp proof course to B.S.743.225mm wide under walling(m.s)including for 200mm long laps (measured net no allowance included for the laps)	LM	122		
В	225mm thick approved smooth hand dressed natural stone/machine cut stone walling in cement morter (1:4)including for hoop iron in every alternate course.	SM	549		
	Vibrated reinforced concrete class 20/20 1:2:4/20 as described in;				
С	In columns size 250x250mm	CM	8		
D	In ring beam and upstand size 450-600x200mm	CM	15		
Е	In 150mm thick suspended slab	SM	260		
Е	In lintols 300x200mm	CM	1		
G	Concrete ramp	CM	1		
	Steel reinforcement bars including cutting, bending, spacer blocks, tying wires and fixing. High tensile bars to BS 4461 in upstand ringbeam and slab.				
Н	Y8mm	KG	159		
I	Y10mm	KG	819		
J	Y12mm	KG	3156		
K	Y16mm	KG	288		
	Total carried to summarry	3			

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QTY</u>	UNIT RATE	AMOUNT
NO.	Sawn formwork to;				
L	Sides of the soffits of ring beam	SM	288		
M	Sides of the column	SM	132		
0	Soffits of the suspended slabs	SM	260		
Ü	ELEMENT 3-ROOF CONSTRUCTION AND	5111			
	COVERING				
	The following in 7no.trusses spanning11.00m and				
	hoisted 4m high above finished floor level				
A	100x50x6mm rolled steel RHS in rafters	LM	160		
В	Ditto 50x50mm in struts	LM	130		
С	Supply and fix in concrete ring beam 28no.16mm bolts	ITEM	1		
D	(200X200X6mm)thick M.S plate cleats with 2no. Holes welded to truss.	NO	16		
Е	Supply and erect MS purlins cleats to truss at 1800cc	NO	92		
F	Supply and erect 150x51x2mm Z purlins bolted to rafters primed with one coat of red oxide	LM	288		
G	Gauge 26 pre-painted IT 5 roof covering sheet including for 2no. Side corrugations and 300mm long	SM	280		
TT	end laps	CM	150		
Н	Ditto for side cladding-ALL 4 sides and gables-1.2m deep	SM	150		
I	26 gauge matching ridge cap	LM	45		
J	50x50x6mm RHS fascia support	LM	23		
K	50x50x6mm angle iron fascia support	LM	138		
L	Supply and fix cleats welded to fascia support	NO	32		
M	26 gauge 100x100mm corner edging	LM	138		
N	14 gauge galvanised M.S in gutters	LM	52		
О	Extra over for stopped ends	NO	4		
P	Ditto for 100mm outlet	NO	9		
Q	50x50mm thick timber bearers	LM	81		
R	100x50mm thick timber cornice	LM	81		
	Down pipes				
S	100mm down pipes 24gauge secured to wall with brackets at 900mm c/c	LM	35		
Т	E.O for sawn neck	NO	9		
U	Prepare surfaces, prime and apply two coats of first	ITEM	1		
	quality aluminium paint to rainwater goods		*		
	Windows				
	Composite purpose made fixed glass steel casement				
	window frame made out of (50x25x3mm thick)				
	RHS,Z-sections and flats complete with fixed glass in				
	approved putty, stays and fasteners all to clients				
	<u>approval.</u>				
	Total carried to summarry				

ITEM	DESCRIPTION	<u>UNIT</u>	<u>QTY</u>	UNIT RATE	<u>AMOUNT</u>
NO.	Fixed glass window size (1200x1500mm)high overall	NO	10		
A	Fixed glass window size (1200x1300mm)mgn overall	NO	12		
В	Ditto size(1000 x 1500mm)	NO	3		
С	Windows size (450 x 600mm) high overall	NO	2		
D	Ditto size (600 x 1000mm) high overall	NO	2		
Е	Fixed glass window size (900x1000mm)high overall	NO	1		
F	Fixed glass window size (1200x1200mm)high overall	NO	1		
G	6mm thick clear glass in steel putty	SM	35		
Н	Supply and fix clay window cill, beded and joined in	LM	35		
	cement/sand(1:3) motor,pointed in matching coloured				
	cement windows				
	<u>Doors</u>		35		
	Purpose made steel casement double leaf door				
	divided into equal leafs made out of 75x50mm frame				
	with four parmanent louvred ventilation made from				
	(25x3mm)flat bars whole door hinged to and				
	including (100x100x6mm) angle line build to wall				
	with brackets in sizes see drawing SK No.06249 sheet				
	1 all fitted with panic locks.				
Α	Door size (1800x3000mm)double leaf	NO	2		
	D ' (1000 2000)' 1 1 5!'1('1)	NO	0		
В	Door size (1800x3000mm)single leaf light weight	NO	8		
	standard				
С	Supply and fix approved panic locks	NO	4		
D	Three lever mortise locks	NO	8		
E			8		
F	38mm rubber door stopper	NO NO	24		
	100mm steel butt hinges Supply and fix emergency panic lock complete with all	NO	4		
G	the necessary ironmongery	NO	·		
Н	250mm long x 25mm x1mm thick fixing clamps	NO	48		
I	Allow for priming all metal and flash doors surfaces	SM	173		
	and apply two coats of 1st quality to all doors and				
	frames.				
	ELEMENT 4-FINISHES				
	Finishes				
Α	25mm thick cement sand screed prepared	SM	240		
В	Ditto for ceramic	SM	58		
С	TERRAZZO paving to floors	SM	220		
D	100mm thick skirting ditto	LM	250		
Е	32 X 3mm thick plastic dividing strip	LM	180		
	Total carried to summarry				

ITEM	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QTY</u>	UNIT RATE	AMOUNT
NO. F	12mm thick internal quality lime plaster finished	SM	929		
_	smooth with steel trowel to all walls and suspended	SW	727		
	slab				
G	Supply and fix approved ceramic floor tiles on	SM	36		
	screed, joints pointed in matching cement grout to				
	approval.				
Н	Tile skirting of 150mm wide	LM	55		
I	Key pointing to external walls using morter	SM	350		
J	12mm plaster to window and doors head,cill and jambs 200-300mm girth	LM	45		
K	Prepare surfaces and apply and 2 coats of 1st quality	SM	750		
IX	silk vinyl emulsion paint to plastered walls internally	SIVI	730		
	and selected external areas and concrete surfaces.				
L	Prepare surface, apply undercoat and 2 coats of 1st	LM	115		
	quality silk vinyl emulsion paint to plastered surfaces				
	200-300mm girth.				
M	200 x 250mm wall tiles bedded in cement grout pointed	SM	58		
	in colour cement to match colour of tiles.				
N	Ditto 300x300mm floor tiles	SM	25		
	Plinth Area	G) f			
О	12mm thick sand/cement (1:3) rendering finish plinth	SM	42		
P	area	SM	42		
r	Prepare surfaces and apply undercoat and two finishing coats black bitumastic or other equal approved water	SIVI	42		
	resistant paint on rendered surfaces to				
	resistant paint on remacrea surfaces to				
2	kitchen				
A	100mm thick 1:2:4 concrete in kitchen work top	SM	6		
В	Y10 reinforcement bars at 200c/c	KG	230		
С	150mm block wall	SM	23		
D	12mm 1:3 cement sand plaster	SM	69		
Е	single drain single bowl stainless sink	NO	1		
F	Bricon or approved kitchen mixer	NO	1		
G	All for 3000 x 600 x 100mm thick concrete work	SM	3		
	top,finish in 600 x 600mmpolished granito tiles.				
Н	5No. 800x600mm low level lockable block board	ITEM	1		
	cabinets all vineered to clients approval				
I	Ditto but overhead 3 No. cabinets	ITEM	1		
3	ELEMENT 5-DRAINAGE AND PLUMBING				
	WORKS				
	Plumbing works	NIC	2		
A	Twyfords Hindustan vitreous china wash hand basin size 500x400mm fixed on semi-concealed brackets.	NO	2		
	SIZE JOUA400HIIII HACU OH SCHII-CONCCAICU DTACKETS.				
	Total carried to summarry				
<u> </u>	Tomi carriou to summarry				

ITEM NO.	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QTY</u>	UNIT RATE	<u>AMOUNT</u>
В	Ref. No.1200 complete with 2No.Approved 12mm. Chrome plated taps	NO	2		
С	150x150mm semi-recessed "Twyfords" white toilet roll holder	NO	2		
D	White Twyfords classic WC suite comprising pan,heavy duty plastic seat and cover,ceramic cistern,flush pipe and trap.	NO	2		
Е	Supply and fix compact auto dryer satin chrome 2.2KW	NO	2		
F	12mm gate valve as per peglar	NO	9		
G	Ditto 15mm	NO	9		
Н	15mm class B pipes including all necessary fittings including all the necessary excavations and chasing in wall.	LM	173		
I	12mm class B pipes including all necessary fittings including all the necessary excavations and chasing in wall.	LM	230		
J	600 x 600 x50mm thick paving slabs on 50mm thick quarry dust blinding; jointed with cement sand (1:3) morter; laid to approved pattern around all buildings	SM	82		
	ELEMENT 6-FIRE EXTINGUISHER, ELECTRICAL INTALLATIONS AND SMOKE DETECTORS 1-FIRE EXTINGUISHERS				
A	Supply and fix controlled discharge 9 litres carbon dioxide gas fire extingisher manufactured to BS EN 3-9:2006,Bs 7863:2009,BS 5306-4:2001 and the cylinder manufactured to BS 5045 complete with the following:	NO	6		
	Charge and fixing bracket				
	Pictorial instructions				
	colour code				
	Servisable on site				
	Discharge horn and horse				
	Brass hot stamping				
	Operating valve				
	Local Fire Bridge approval				
	Ditto fire blanket 6" x 4" container	NO	4		
	Ditto Dry powder	NO	6		
					_
	Total carried to summarry				

ITEM	DESCRIPTION	<u>UNIT</u>	<u>QTY</u>	UNIT RATE	<u>AMOUNT</u>
NO.	PRIME COST SUM				
	ELEMENT No.2-ELECTRIAL INSTALLATIONS				
A	Allow for electrical installations to be carried out by a nomited subcontractor as per electrical drawing-lumpsum and to comprise the following, 2No.12 way 3-phase 415V distribution board rated 100Amps complete with 3 phase MCBS,32Amps-2set and six 1 phase way MCBS 16Amps.	ITEM	1		
В	Ditto 1 No. consumer unit rated 60Amps,6ways each MCBS rated 16Amps.	ITEM	1		
С	Builders work in connection with electrical installations; cut away for and attend in all trades on the sub-contractor installing the following points in a mainly concealed system; including chases, holes and racess notching in timber etc; and making good all finishes for sockets, lighting points, consumer units etc.	ITEM	1		
D	Supply and install 420V AC Autochangeover distribution panel(As per document No.KP1/6C.1/13/TSP/09/092)	ITEM	1		
Е	Allow for installation of flood light for street lighting for the substation switchyard,240V AC,energy saver 100watts.	NO	8		
	ELEMENT No.2-SMOKE DETECTORS				
A	Allow for Hardwired smoke detectors installations;includting a battery back up;to be carried out by a nominated sub-contractor	ITEM	1		
В	Builder's work in connection with Smoke detector installations; cut away for and attend in all trades on the sub-contractor installing the following points in a mainly concealed system; including chases, holes and recess notching in timber etc; and making good all finishes for cut in boxes, electrical wiring, mounting brackets, smoke detector feeds, fire alarm points etc	ITEM	1		
	ELEMENT NO. 4 - AIR CONDITIONING				
	Air conditioning				
	Supply and fix air conditioners complete with all fixing accesories to controll room temperartures from approved suppliers				
Α	18000 BTU split type	NO	1		
В	12000 BTU split type	NO	2		
	Total carried to summarry				

MATER SUPPLY A Allow for all the connections of the available water to the raised installed overhead water tank and teste. B Supply and install 6000 litres an approved plastic water tank, approved 3/4" watertap and concrete platform including all nacessary required fittings and connections External Works Vibrated reinforced concrete class 20/20 (1:2:4/20) in: C concrete ramps at the doors Mild steel bar to BS 4449; Total carried to summarry D BRC mesh reference No. A142 weighing 2.22kg per square metric including 150mm minimum end and side lap-bends, tying wires and spacer blocks E 600x600x50mm thick precast paving blocks embeded on well compacted 50mm mirram, jointed with cement/sand mortar (1:4) SUBSTATION LIGHTING F Supply 240 watr AC (LIGHT DEPENDENT TYPE) backy head floodlight with energy saver 100 watrs sodium metal haidic lamps to be hoisted on mast supplied by kplc including all connections G supply and fix emergency chargeable lights in the control room to client approval. STORM WATER DRAINAGE A Exeavate on site drain trench not exceeding 1.5m deep including plucking and struting, disposal of soil to receive drainage channels and forming sloping sides in well compacted forman bed. Lay (300x450mm) precast concrete invert block drains to a suitable fall with grooved odge and tounged joints filled with cement/sand mortar (1:3) and laid on 50mm thick plain concrete bed C Supply and Jay on sides of sloped trench (75x230mm Mild) precast concrete slabs jointed in 1:3 cunner sand mortar D Stone pitching with bedding in 1:2 motar with to terminate at drains E Allow for masonry gully trap in chamber complete with golden brown uPVC P-trap with seal drain pipe F Allow for lomm pvc for french drain and backfill LM 300	ITEM	<u>DESCRIPTION</u>	<u>UNIT</u>	QTY	UNIT RATE	<u>AMOUNT</u>
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STORM WATER DRAINAGE A Excavate on site drain trench not exceeding 1.5m deep including plucking and struting, disposal of soil to receive drainage channels and forming sloping sides in well compacted murram bed. B Lay (300x450mm) precast concrete invert block drains to a suitable fall with grooved edge and tounged joints filled with cement/sand mortar (1:3) and laid on 50mm thick plain concrete bed C Supply and lay on sides of sloped trench (75x230mm wide) precast concrete slabs jointed in 1:3 cement sand mortar D Stone pitching with bedding in 1:2 motar with to terminate at drains E Allow for masonry gully trap in chamber complete with golden brown uPVC P-trap with seal drain pipe F Allow for 10mm pvc for french drain and backfill LM 300	G		NO	2		
including plucking and struting, disposal of soil to receive drainage channels and forming sloping sides in well compacted murram bed. B Lay (300x450mm) precast concrete invert block drains to a suitable fall with grooved edge and tounged joints filled with cement/sand mortar (1:3) and laid on 50mm thick plain concrete bed C Supply and lay on sides of sloped trench (75x230mm wide) precast concrete slabs jointed in 1:3 cement sand mortar D Stone pitching with bedding in 1:2 motar with to terminate at drains E Allow for masonry gully trap in chamber complete with golden brown uPVC P-trap with seal drain pipe F Allow for 10mm pvc for french drain and backfill LM 300		STORM WATER DRAINAGE				
to a suitable fall with grooved edge and tounged joints filled with cement/sand mortar (1:3) and laid on 50mm thick plain concrete bed C Supply and lay on sides of sloped trench (75x230mm wide) precast concrete slabs jointed in 1:3 cement sand mortar D Stone pitching with bedding in 1:2 motar with to terminate at drains E Allow for masonry gully trap in chamber complete with golden brown uPVC P-trap with seal drain pipe F Allow for 10mm pvc for french drain and backfill LM 300	A	including plucking and struting, dispoasl of soil to receive drainage channels and forming sloping sides in	СМ	225		
wide) precast concrete slabs jointed in 1:3 cement sand mortar D Stone pitching with bedding in 1:2 motar with to terminate at drains E Allow for masonry gully trap in chamber complete with golden brown uPVC P-trap with seal drain pipe F Allow for 10mm pvc for french drain and backfill LM 300	В	Lay (300x450mm) precast concrete invert block drains to a suitable fall with grooved edge and tounged joints filled with cement/sand mortar (1:3) and laid on 50mm	LM	180		
terminate at drains E Allow for masonry gully trap in chamber complete with golden brown uPVC P-trap with seal drain pipe F Allow for 10mm pvc for french drain and backfill LM 300	С	wide) precast concrete slabs jointed in 1:3 cement sand	SM	190		
with golden brown uPVC P-trap with seal drain pipe F Allow for 10mm pvc for french drain and backfill LM 300	D		SM	196		
	E		NO	2		
Total carried to summarry	F	Allow for 10mm pvc for french drain and backfill	LM	300		
		Total carried to summarry				

ITEM NO.	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QTY</u>	UNIT RATE	<u>AMOUNT</u>
NO.	PERIMETER WALLING -192LM				
	(Substructures)				
A	Excavate for foundation trench 600mm wide commencing at reduced level and not exceeding 1.5m deep	СМ	180		
В	extra Excavations for widening column bases size (1.0x1.0)m	СМ	23		
С	Ditto exceeding 1.5m but n.e 3.0m	CM	26		
D	Extra over for excavation in all classes of rock at any depth	СМ	3		
Е	Load, cart away from site surplus excavated materials and disporse at areas designated by local authority	CM	180		
F	Fill in and ram selected imported materials around foundation and columns	CM	80		
G	Provide all the necessary planking and strutting to uphold sides of the trenches.	ITEM	1		
Н	Allow for keeping all excavations water free by pumping,bailing or otherwise.	ITEM	1		
I	50mm thick (1:4:8) mass concrete blinding to walling and column bases	SM	130		
	Vibrated reinforced concrete class				
	20/25 1:2:4/25 as described in;				
J	Foundation strip size (200x600)mm	CM	27		
K	Column bases (1000x1000x300)mm	CM	23		
L	Columns (300x300)mm	CM	23		
M	Ground beam(300X200) and ring beam(200x200)mm respectively	CM	34		
	Sawn/Steel form work to				
N	Vertical sides of column	SM	100		
O	Vertical sides of ground beam	SM	140		
	Steel reinforcement bars including tying bending				
	spacer blocks tying wires and fixing high tensile				
	bars to BS 4461				
A	Y 8	KG	1791		
В	Y 10	KG	407		
С	Y 12	KG	1964		
	225mm thick natural stone substructure walling in cement sand mortar (1:3) including and reinforced with 20 SWG hoop iron in every two alternating course.				
D	225mm thick natural stone wall	SM	131		
	Total comical to grown our				
	Total carried to summarry				

ITEM	<u>DESCRIPTION</u>	<u>UNIT</u>	QTY	UNIT RATE	<u>AMOUNT</u>
NO. E	25mm thick cement/sand (1:4) rendering on plinth area finished smooth to receive bituminous paint-400mm	SM	80		
Б	high	NI.	60		
F	Allow for and create 100mm diameter weep holes at ground level every3.0m centers on masonry/concrete	No.	60		
	wall and prevent ingress using wire mesh grouted in				
	cements and mortar.				
2	Superstructure-Walling				
G	200mm thick machine-cut or fair faced dressed natural	SM	598		
	or approved concrete blocks stone walling in				
	cement/sand (1:4) mortar including 20G hoop-iron in				
	every alternate (1:3)courses.Internally plastered and				
	keying.				
Н	350mm wide pre-cast concrete coping twice weathered	LM	192		
	and twice throated fixed to wall.	3.7			
I	(800x550)mm concrete coping weathered and throated	No.	9		
	on all sides fixed to double columns.	NT.	<i>5</i> 0		
J	(550x450)mm square concrete coping weathered and throated on all sides fixed columns.	No.	58		
3	Expansion Joint				
K	40mm thick construction joint in flex cell or equal and	SM	15		
1	appoved expansion joint and (25x25)mm expedite	SIVI	13		
	sealer				
4	Razor Wire				
	Supply and fix Razor Wire at the top of boundary wall				
	conforming to the following specifications.				
M	Coil size-450mm diameter, Blade profile-ripper razor	LM	204		
	wire, stretch factor-maximum of 10m per coil and secured to wall with galvanised steel plates at 1m centers				
	wan with garvanised steel plates at 1111 centers				
	<u>PIT LATRINE</u>				
	Excavation				
A					
	Oversite excavation to reduce levels commencing from	CAF	-		
В	existing ground level;150mm deep	SM	5		
D D	Excavate from reduced level strip foundation and not exceeding 1.5m deep.	CM	4		
С	Excavate from reduced level strip foundation and not	CIVI	+		
	exceeding 3.0m deep.	CM	3		
D	Excavate from reduced level strip foundation and not	21.1	<u> </u>		
	exceeding 4.5m deep.	CM	3		
Е	Excavate from reduced level strip foundation and not				
	exceeding 6.50m deep.	CM	3		
F	Extra over excavation in rock	CM	2		
G	Remove surplus soil from site to a place approved by				
	local authority	CM	12		
	T				
	Total carried to summarry				

ITEM	DESCRIPTION	<u>UNIT</u>	<u>QTY</u>	UNIT RATE	<u>AMOUNT</u>
NO.	Mass consucts with (1.4.9) in				
Н	Mass concrete mix (1:4:8) in	CM			
п	50mm thick blinding in strip foundations Vibrated reinforced insitu concrete class 20/20;	SM	5		
	with minimum cube crushing strength of 20N/mm				
	at 28 days; in				
I	150mm thick ground floor slab	SM	5		
J	Strip foundations	CM	1		
	Surp roductions	CIVI	1		
	Supply and fix steel bar in structural concrete work				
	including cutting, bending, hoisting, tying wire,				
	spacer blocks and supporting all in position:				
K	10mm bars	KG	77		
	Mesh fabric reinforcement				
L	Mesh reinforcement No. A142 size 200 x 200mm				
	weighing 2.22 kg per square meter; in floor slab;				
	including all necessary supports	SM	5		
	Sawn formwork to:				
M	Edges: slabs 75 - 150mm girth	SM	9		
N	Vertical sides; strip footing; 200mm high	SM	9		
	Total carried to summarry				
	<u>Walls</u>				
Α	200mm thick natural stone foundation walls; machine				
	dressed square; bedded and jointed in cement and sand				
	(1:4) mortar; reinforced with 20SWG Hoop Iron in	G) 1	1.4		
	every alternate course	SM	14		
В	Anti-termite treatment				
Ь	A				
	Approved anti-termite chemical treatment; applied by approved professional pest control specialist; applied				
	strictly in accordance with the manufacturers'				
	instructions; ten(10) year guarantee	SM	3		
	DPM				
С	Guage 1000 polythene damp proof membrane	SM	5		
_	25mm thick cement/sand (1:4) rendering; on		-		
	concrete or stonework; wood float finished to			<u> </u>	
D	Plinths; externally	SM	5		
	Prepare surfaces and apply undercoat and two				
	finishing coats black bitumastic or other equal				
	approved water resistant paint on rendered				
	surfaces to:				
Е	Plinths: externally	SM	5		
	Sawn formwork to				
F	Sides and soffits beams	SM	6		
	Supply and fix square twisted steel bars in				
	structural concrete work including cutting,				
	bending, hoisting, tie wire, spacer blocks and				
	supporting all in position				
	Total carried to summarry				

ITEM	<u>DESCRIPTION</u>	<u>UNIT</u>	QTY	UNIT RATE	<u>AMOUNT</u>
NO.	8mm bars	KG	24		
Н	12mm bars	KG	47		
11	Vibrated reinforced insitu concrete class 20/20;	KO	47		
	with minimum cube crushing strength of				
	20N/mm at 28 days; in				
Т	Ring beams	CM	1		
1	External Walls	CIVI	1		
	Machine dressed natural stone walling bedded				
	in cement/sand mortar(1:4) with minimum				
	stone crushing strength of 7N/mm2; reinforced				
	with 20SWG Hoop Iron in every alternate				
	course				
	<u>eourse</u>				
U	200mm thick walls	SM	21		
V	Extra over external walling for horizontal key				
	pointing	SM	21		
	Bituminous felt or other equal approved damp				
	proof course; in cement/sand (1:3) mortar				
W	200mm wide	SM	2		
	SUNDRIES				
X	Make holes on 100mm thick concrete slab for		1		
	150mm diameter PVC pipe	NO	1		
Y	Provide and fix 100mm thick PVC vent with cap		3		
	average length 3m	LM	3		
	ROOF				
	The following in 4 No. purlins; steel structural				
	roof; spanning 3.2m; hoisted to a height of				
	approximately 2.4m from ground level				
A	150 x 50 x 2mm Z purlins bedded in masonry wall		15		
	with cement sand mortar	LM	1.5		
В	Drill holes in steel members for 12mm bolts in Z		23		
	purlins	NO			
С	12mm bolts	NO	23		
D					
	Supply and fix 26g mild steel trough roofing				
	sheets type LT5; factory prepainted to approved		12		
	standard colour; laid with 150mm end lap and		= =		
	94mm side laps; fixed to metal purlins including				
	hook bolts, washers and nuts at 1000mm centres	SM			
	Total carried to summarry				

ITEM	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QTY</u>	UNIT RATE	AMOUNT
NO.	Ditto for side cladding-ALL 4 sides, fixed to 100 high				
Е	steel fascia claddind frame incuding J-bolts ,washers				
	nuts and rubber cups ,including underside of cladding				
	500mm wide,including 14 gauge galvanised gutters and	SM	14		
	100mm downpipes 24gauge secured to wall with	21.1			
	brackets 900mm c/c.				
	<u>OPENINGS</u>				
	Concrete Louvres				
F	150 x150 x 150mm concrete louvre blocks fixed		2		
	with cement sand mortar (1:3)	SM	<u> </u>		
	Window Cill				
G					
	Supply and fix 200mm clay window cills; bedded		6		
	and jointed in cement/sand (1:3) mortar; pointed				
	in matching coloured cement to windows	LM			
	<u>DOORS</u>				
Н	Mild steel light door size 965 x 2100 mm				
	complete with all iron mongery as per drawing		2		
	SK. No. 06249	NO			
	Iron mongery				
	Supply and fix "Acco Ablay" or acual				
	Supply and fix "Assa Abloy" or equal approved iron mongery; matching screws;				
	locks to include a set of 3 keys; available from				
	their authorised local dealers to approval				
I	100mm mild steel butt hinges	NO	2		
J	3 lever steel casement rebated door lock with	110			
	handles	NO	2		
	Prepare surfaces,three coats gloss oil paint to	1,0			
	metal surfaces				
K	Doors internally and externally	SM	4		
	FINISHES				
	FLOOR FINISHES				
	Screed; cement/sand (1:3) on concrete				
L	30mm thick to receive floor tiles	SM	5		
	Supply and fix approved ceramic floor tiles on				
	screed; joints pointed in matching cement				
	grout to approval				
M	300 x300 x 10mm thick approved ceramic tiles	SM	5		
	WALLING				
	Backing: 10mm cement/sand (1:4); on masonry				
	or concrete ; wood float finished to				
N	Walls to receive ceramic tiles	SM	23		
	Total carried to summarry				

ITEM	<u>DESCRIPTION</u>	<u>UNIT</u>	QTY	UNIT RATE	AMOUNT
NO.	C				
	Supply and fix coloured glazed ceramic wall tiles; on backing; joints pointed in matching				
	cement grout				
0	300 x 300 x 10mm thick tiles	SM	23		
	300 x 300 x 10mm thek thes	SIVI	23		
P	300 x 50 x10mm thick border tile	LM	14		
Q					
	Supply and fix matching pvc tile strip to tile edges	LM	56		
	Plaster; 13mm cement/lime putty/sand; wood				
	float; on masonry and concrete to				
R	Walls and concrete surfaces; externally	SM	21		
	Prepare surfaces; apply three coats First grade				
	vinyl emulsion paint or other equal approved;				
	on wood float plaster to:				
S	Walls and concrete surfaces	SM	21		
	GUARD HOUSE				
	SUBSTRUCTURES				
	Excavation				
A	Site excavate to reduce levels commencing from				
	existing ground level;150mm deep and not				
	exceeding 1.5m deep;	SM	7		
В					
	Excavate for strip foundation trench, commencing				
	reduced level; not exceeding 1.5m deep	CM	6		
С	Remove surplus soil from site to a place approved				
	by local authority	CM	7		
	Mass concrete mix (1:4:8) in				
D	50mm thick blinding under strip foundations	SM	5		
	Vibrated reinforced insitu concrete class 20/20;				
	with minimum cube crushing strength of				
	20N/mm2 at 28 days; in				
Е	150mm thick ground floor slab	CM	1		
F	Strip foundations	CM	1		
	Supply and fix steel bar in structural concrete				
	work including cutting, bending, hoisting, tying				
	wire, spacer blocks and supporting all in				
	position:				
G	8mm bars	KG	17		
Н	12mm bars	KG	29		
	Mesh fabric reinforcement				
I	Mesh reinforcement No. A142 size 200 x 200mm				
	weighing 2.22 kg per square meter; in floor slab;	0:-	_		
	including all necessary supports	SM	5		
	Sawn formwork to:				
J	Edges: slabs 75 - 150mm girth	LM	9		
K	Vertical sides; strip footing; 200mm high	SM	5		
	Total carried to summarry				

ITEM	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QTY</u>	UNIT RATE	<u>AMOUNT</u>
NO.	Walls				
L	200mm thick naturall stone foundation walls;				
	machine dressed square; bedded and jointed in				
	cement and sand (1:4) mortar; reinforced with				
	20SWG Hoop Iron in every alternate course	SM	8		
	Total carried to summarry				
	Hardcore				
M	300mm thick hardcore of approved inert material;		2		
	well compacted in 150mm thick (maximum)				
	layers	CM			
	Blinding				
N	50mm thick approved quality murram blinding to		5		
	surfaces of hardcore	SM			
	Anti-termite treatment				
О	Approved anti-termite chemical treatment; applied		5		
	by approved professional pest control specialist;				
	applied strictly in accordance with the				
	manufacturers' instructions; ten(10) year				
	guarantee	SM			
	DPM	C) (
P	Guage 1000 polythene damp proof membrane	SM	5		
	25mm thick cement/sand (1:4) rendering; on				
Q	concrete or stonework; wood float finished to Plinths; externally	SM	5		
Ų	Prepare surfaces and apply undercoat and two	SIVI	3		
	finishing coats black bitumastic or other equal				
	approved water resistant paint on rendered				
	surfaces to:				
R	Plinths: externally	SM	5		
	R.C SUPERSTRUCTURE				
	Sawn formwork to				
S	Sides and soffits beams	SM	5		
T	Bench slab	SM	1		
	Supply and fix square twisted steel bars in				
	structural concrete work including cutting,				
	bending, hoisting, tie wire, spacer blocks and				
	supporting all in position				
A	8mm bars	KG	18		
В	12mm bars	KG	38		
	Vibrated reinforced insitu concrete class 20/20;				
	with minimum cube crushing strength of				
	20N/mm2 at 28 days; in	Gr. f	-		
C	Ring beam	CM	1		
D	Bench slab	CM	1		
	Total countries 4 to commerce				
	Total carried to summarry				

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
NO.					
	WALLS				
	External Walls				
	Machine dressed natural stone walling bedded				
	in cement/sand mortar(1:4) with minimum				
	stone crushing strength of 7N/mm2; reinforced				
	with 20SWG Hoop Iron in every alternate				
	<u>course</u>				
Е	200mm thick walls	SM	21		
F	Extra over external walling for horizontal				
	pointing	SM	21		
	Bituminous felt or other equal approved damp				
	proof course; in cement/sand (1:3) mortar				
G	200mm wide	SM	2		
U	ROOF	SIVI			
	ROOF				
	The following in 4 No. purlins; steel structural				
	roof; spanning 3.2m; hoisted to a height of				
	approximately 2.4m from ground level				
Н	150 x 50 x 2mm Z purlins bedded in masonry wall				
	with cement sand mortar	LM	15		
I	Drill holes in steel members for 12mm bolts in Z	NO	22		
	purlins	NO	23		
J	12mm bolts	NO	23		
K					
	Supply and fix 24g mild steel trough roofing				
	sheets type IT5; factory prepainted to approved	SM	12		
	standard colour; laid with 150mm end lap and	SIVI	12		
	94mm side laps; fixed to metal purlins including				
	hook bolts, washers and nuts at 1000mm centres				
L	Ditto for side cladding-ALL 4 sides, fixed to 100 high				
	steel fascia claddind frame incuding J-bolts ,washers				
	nuts and rubber cups, including underside of cladding				
	500mm wide,including 14 gauge galvanised gutters and	SM	14		
	100mm downpipes 24gauge secured to wall with brackets 900mm c/c.				
	brackets 400mm c/c.				
	Total carried to summarry				

NO. OPENINGS Windows Mild steel casement windows; fixed panes; custom made; sections to drawings and with approved ironmongery; sections divided with 25 x25 x3mm thick RHS welded onto main frame 40 x25 x3mm RHS; NO. Ditto but 900 x 1200mm high NO 5 Mild steel door size 965 x 2100 mm complete with all iron mongery as per drawing SK. No. 06249 O Supply and fix clay window cills; bedded and jointed in cement/sand (1:3) mortar; pointed in matching coloured cement to windows DOORS DOORS P Mild steel door size 965 x 2100 mm complete with all iron mongery as per drawing SK. No. 06249 Iron mongery Supply and fix "Assa Abloy" or equal approved iron mongery; matching serews; locks to include a set of 3 kevs; available from their authorised local dealers to approval Total carried to summarry Q 100mm mild steel butt hinges NO 3 R 3 lever steel casement rebated door lock with handles Prepare surfaces, three coats gloss oil paint to metal surfaces S Doors internally SM 2 PrINISHES FLOOR FINSHES FLOOR FINSHES Screed; cement/sand (1:3) on concrete U 30mm thick to receive floor tiles SM 5 Supply and fix coloured ceramic floor tiles on screed; joints pointed in matching cement grout to approval V 300 x300 x 10mm thick tiles SM 5 WALLING Backing; 10mm cement/sand (1:4); on masonry or concrete voul walls to receive dearmic tiles Backing; 10mm cement/sand (1:4); on masonry or concrete voul walls to receive dearmic tiles Backing; 10mm cement/sand (1:4); on masonry or concrete voul masonry or concrete voul masonry or concrete voul masonry or concrete voul float finished to Walls to receive dearmic tiles Backing; 10mm cement/sand (1:4); on masonry V 300 x300 x 10mm thick tiles Backing; 10mm cement/sand (1:4); on masonry V 300 x300 x 10mm thick tiles SM 5 VALLING Sanches S	ITEM	<u>DESCRIPTION</u>	UNIT	QTY	UNIT RATE	AMOUNT
Windows Mild steel casement windows : fixed panes; custom made; sections to drawings and with approved ironmongery; sections divided with 25 x25 x 3mm thick RHS welded onto main frame 40 x 25 x 3mm RHS; N Ditto but 900 x 1200mm high NO 5	NO.	ODENINGS				
Mild steel casement windows ; fixed panes; custom made; sections to drawings and with approved ironmongery; sections divided with 25 x25 x 3mm thick RHS welded onto main frame 40 x 25 x 3mm RHS; N Ditto but 900 x 1200mm high NO 5						
custom made; sections to drawings and with approved ironmongery; sections divided with 25 x25 x 3mm thick RHS welded onto main frame 40 x 25 x 3mm kHS; N Ditto but 900 x 1 200mm high Mild steel door size 965 x 2100 mm complete with all iron mongery as per drawing SK. No. 06249 O Supply and fix clay window cills; bedded and jointed in cement/sand (1:3) mortar; pointed in matching coloured cement to windows DOORS P Mild steel door size 965 x 2100 mm complete with all iron mongery as per drawing SK. No. 06249 Iron mongery Supply and fix "Assa Abloy" or equal approved iron mongery: matching screws; locks to include a set of 3 keys; available from their authorised local dealers to approval. Total carried to summarry Q 100mm mild steel butt hinges R 3 lever steel casement rebated door lock with handles Prepare surfaces, three coats gloss oil paint to metal surfaces S Doors internally T Doors externally T Doors externally SM 2 FINSHES FLOOR FINISHES FLOOR FINISHES Screet; cement/sand (1:3) on concrete U 30mm thick to receive floor tiles Supply and fix coloured ceramic floor tiles on screed; joints pointed in matching cement grout to approval V 300 x300 x 10mm thick tiles Backing: 10mm cement/sand (1:4); on masonry or concrete: ewood float finished to Walls to receive ceramic tiles Backing: 10mm cement/sand (1:4); on masonry						
approved ironmongery: sections divided with 25 x25 x 3mm thick RHS welded onto main frame 40 x 25 x 3mm RHS; N Ditto but 900 x 1200mm high NO 5 NO 5 NI did steed door size 965 x 2100 mm complete with all iron mongery as per drawing SK. No. 96249 O Supply and fix clay window cills; bedded and jointed in cenent/sand (1:3) mortar; pointed in matching coloured cement to windows DOORS D						
25 x25 x 3mm thick RHS welded onto main frame 40 x 25 x 3mm RHS; N Ditto but 900 x 1200mm high NO 5 Mild steel door size 965 x 2100 mm complete with all iron mongery as per drawing SK. No. 06249 O Supply and fix clay window cills; bedded and jointed in cement/sand (1:3) mortar; pointed in matching coloured cement to windows DOORS P Mild steel door size 965 x 2100 mm complete with all iron mongery as per drawing SK. No. 06249 Iron mongery Supply and fix "Assa Abloy" or equal approved iron mongery; matching screws; locks to include a set of 3 keys; available from their authorised local dealers to approval Total carried to summarry Q 100mm mild steel butt hinges NO 3 R 3 lever steel casement rebated door lock with handles Prepare surfaces, three coats gloss oil paint to metal surfaces S Doors internally SM 2 T Doors externally SM 2 FINISHES FLOOR FINISHES Screed: cement/sand (1:3) on concrete U 30mm thick to receive floor tiles Supply and fix coloured ceramic floor tiles on screed; joints pointed in matching cement grout to approval V 300 x300 x 10mm thick tiles Backing: 10mm cement/sand (1:4); on masonry or concrete; wood float finished to Walls to receive ceramic tiles Backing: 10mm cement/sand (1:4); on masonry						
Prepare surfaces, three coats gloss oil paint to metal surfaces S Doors internally SM 2 S Doors internally SM 5 S Supply and fix coloured ceramic floor tiles on screed; joints pointed in matching coloured cement/sand (1:4); on masonry or concrete; wood float finished to Walks to receive ceramic tiles SM 5 S WALLING Mild steel door size 965 x 2100 mm complete with all iron mongery as per drawing SK. No. NO 1 06249 Iron mongery Supply and fix "Assa Abloy" or equal approved iron mongery; matching screws; locks to include a set of 3 keys; available from their authorised local dealers to approval Total carried to summarry O 100mm mild steel but thinges NO 3 NO 1 Prepare surfaces, three coats gloss oil paint to metal surfaces S Doors internally S M 2 S Doors internally S M 3 S S Doors internally S M 5 S S Doors internally S M 5 S S Doors internally S M 5 S S Doors internally S M 5 S S Doors internally S M 5 S S Doors internally S M 5 S S Doors internally S M 5 S S Doors internally S M 5 S S Doors internally S M 5 S S Doors internally S M 5 S S Doors internally S M 5 S S Doors internally S M 5 S Doors internally S						
N Ditto but 900 x 1200mm high NO 5						
Mild steel door size 965 x 2100 mm complete with all iron mongery as per drawing SK. No. 06249 O Supply and fix clay window cills; bedded and jointed in cement/sand (1:3) mortar; pointed in matching coloured cement to windows DOORS P Mild steel door size 965 x 2100 mm complete with all iron mongery as per drawing SK. No. NO 1 06249 Iron mongery Supply and fix "Assa Abloy" or equal approved iron mongery: matching screws; locks to include a set of 3 keys; available from their authorised local dealers to approval Total carried to summarry Q 10/mm mild steel but hinges NO 3 R 3 lever steel casement rebated door lock with handles Prepare surfaces, three coats gloss oil paint to metal surfaces S Doors internally SM 2 T Doors externally SM 2 FINISHES FLOOR FINISHES Screed; cement/sand (1:3) on concrete U 30mm tick to receive floor tiles Supply and fix coloured ceramic floor tiles on screed; joints pointed in matching cement grout to approval V 300 x 300 x 10mm thick tiles Backing: 10mm cement/sand (1:4); on masonry or concrete; wood float finished to Walls to receive eramic tiles Backing: 10mm cement/sand (1:4); on masonry Or concrete; wood float finished to Walls to receive eramic tiles			210			
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		Walls to receive ceramic tiles				
		Backing: 10mm cement/sand (1:4); on masonry				
or concrete; wood float finished to		or concrete; wood float finished to				
Total carried to summarry		Total carried to summarry				

ITEM NO.	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QTY</u>	UNIT RATE	<u>AMOUNT</u>
A	Walls to receive ceramic tiles	SM	18		
	Supply and fix coloured glazed ceramic wall				
	tiles; on backing; joints pointed in matching				
	cement grout				
	300 x 300 x 10mm thick tiles	SM	18		
	300 x 50 x10mm thick border tile	LM	9		
В					
	Supply and fix matching pvc tile strip to tile edges	LM	36		
	Plaster; 13mm cement/lime putty/sand; wood				
	float; on masonry and concrete to				
	Walls and concrete surfaces; externally	SM	6		
С	Prepare surfaces; apply three coats First grade				
	vinyl emulsion paint or other equal approved;				
	on wood float plaster to:	~			
_	Walls and concrete surfaces	SM	6		
5	RETAINING WALL-86LM	~ .			
A	Excavate for foundation trench 1.0 m wide	CM	140		
	commencing at reduced level and not exceeding				
	1.5m deep for wall and retaining wall	G) I			
В	Ditto exceeding 1.5m but n.e 3.0m	CM	53		
С	Extra over for excavation in all classes of rock at	CM	5		
D	any depth	CM	158		
D	Load, cart away from site surplus excavated	CM	138		
	materials and dispose at areas designated by local				
E	authority. Fill in and ram selected excavated materials	CM	105		
E	around foundation and columns.	CM	103		
F	Allow for keeping all excavations water free by	ITEM	1		
1	pumping, bailing or otherwise.	TTEM	1		
G	50mm thick (1:4:8) mass concrete blinding to	SM	158		
J	retaining wall foundation base.	SIVI	130		
	Vibrated reinforced concrete class 25(20) as				
	described in;				
Н	retaining wall base 1000x250mm	CM	40		
L	retaining wall stub ranging from 1m to 1.5m but	CM	53		
	to 1m above ground		-		
	Sawn/Steel form work to				
M	Vertical sides of foundation strip-250mm girth	LM	210		
N	Vertical retaining walls	SM	315		
	Steel reinforcement bars including tying				
	bending spacer blocks tying wires and fixing				
	high tensile bars to BS 4461				
O	Y12 in retaining wall base	KG	1360		
A	Y10 in retaining wall stem	KG	2400		
	Total carried to summarry				

ITEM NO.	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QTY</u>	UNIT RATE	<u>AMOUNT</u>
B	Y8 binders	KG	700		
С	25mm thick cement/sand (1:4) rendering on walls	SM	125		
	surfaces				
D	Allow for and create 100mm diameter weep holes	No.	30		
	at ground level every 2.0m centers on				
	masonry/concrete wall and prevent ingress using				
	wire mesh grouted in cement				
Е	Prepare and apply 3 coats of bituminous paint to	SM	460		
	external surfaces of all retaining walls.				
	WATER STORAGE TANK STEEL TOWER				
A	Excavate for column bases (1.5X1.5)m n.e 1.5m	CM	21		
В	Level and compact bottom of the excavated bases	SM	12		
С	50mm thick 1:4:8 blinding to column bases	SM	12		
D	12 mm diameter high yied steel bars to bases and stubs	KG	230		
Е	8mm ditto	KG	58		
F	concrete (1:2:4, class 20) in column bases	CM	3		
G	Allow for accurately setting 16 No. 20mm diameter	ITEM	1		
	galvanised steel foundation bolts at 250mm centres on				
	foundation column plinths				
Н	V. r. concrete (class 25) in tank foundation stub	CM	2		
	columns				
	plinths size (400mmx400mm)				
I	Sawn formwork to sides of columns	SM	15		
J	Backfill and ram excavated material around foundation	CM	16		
K	Load and cart away the surplus	CM	5		
	The following in steel work tower 2000x2000mm				
	wide x6000m high fixed 1500mm deep in ground				
	including cutting and welding or bolting as necessary				
	finished, with 3 coats of red oxide primer				
A	300x300x10mm thick base plate with 4no. 18mm	NO	5		
	diameter holes spaced at 250mm centres and welded to				
	the bottom of tower column				
В	100x100x8mm mild steel angles in main framework	LM	28		
	welted to base plates and reinforced with 12No.cleats				
С	Ditto decking	LM	23		
D	Ditto (50x50x6mm) in bracing and struts	LM	85		
Е	black pipes (40mm) in ballustrades	LM	35		
F	(50x100x6mm) RHS in decking	LM	23		
	Total carried to summarry				

ITEM NO.	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QTY</u>	UNIT RATE	<u>AMOUNT</u>
G	4mm thick galvanised checkered plate secured on decking	SM	10		
Н	40mm GMS pipe handrail verical and horizontal	LM	46		
I	Allow for water storage tank access ladder with 50x50x4mm main frame with 16mm rods spaced at 300mm c/c	ITEM	1		
J	Apply two coats of gloss paint to tower	ITEM	1		
K	Supply and install 3500 litres capacity ROTO-TANK including hoisting to position and including hoisting to position and applying two coats of brilliant white gloss paint on its outer surface	ITEM	1		
L	Allow for connecting piped water to elevated storage tank Using 12mm class B pipes including all the necessary water control fittings	ITEM	1		
М	Septic Tank Excavate, construct and dispose surplus excavated material, septic tank with a capacity of 6000ltrs; including inlet and outlet manholes as per drawing No. (50) 5842	NO	1		
N	Construct soak pits as per drawing No. (50) 5845 but 6m deep	NO	1		
О	Fill up existing septic and soakpits and by rubble or hardcore lower level and compacted muruum in layers 200mm	ITEM	1		
	Total carried to summarry				

ITEM	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QTY</u>	UNIT RATE	AMOUNT
NO.	SUMMARY PAGE				
	TOTAL FROM PAGE 1				
	TOTAL FROM PAGE 2				
	TOTAL FROM PAGE 3				
	TOTAL FROM PAGE 4				
	TOTAL FROM PAGE 5				
	TOTAL FROM PAGE 6				
	TOTAL FROM PAGE 7				
	TOTAL FROM PAGE 8				
	TOTAL FROM PAGE 9				
	TOTAL FROM PAGE 10				
	TOTAL FROM PAGE 11				
	TOTAL FROM PAGE 12				
	TOTAL FROM PAGE 13				
	TOTAL FROM PAGE 14				
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	TOTAL FROM PAGE 22				
	TOTAL FROM PAGE 23				
	TOTAL FROM PAGE 24				
	TOTAL FROM PAGE 25				
	TOTAL FROM PAGE 26				
	TOTAL FROM PAGE 27				
	TOTAL FROM PAGE 28				
	SUBTOTAL				
	ALLOW 16% VAT				
	TOTAL CARRIED TO FORM OF TENDER				
	Amount in words:				
			С	OMPANY STAM	P
	Signed:				
	Name:				
	Address:				
	Conctract Period:	1			
	Weeks				

ITEM	DESCRIPTION	<u>UNIT</u>	QTY	UNIT RATE	AMOUNT
NO.					