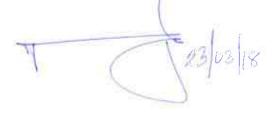
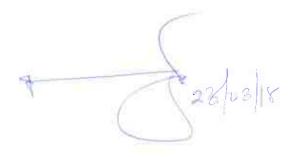
No.	Description	Unit	Qty	Rate	Amount
	BILL NO.1 PRELIMINARIES				
Α	General Description of the Works				
	The Works in this contract comprise the erection and completion of:				
	(a) New Control Building comprising of the following:-				
	(i) 11KV switchboard room 93 M2				
	(ii) Panel room 49 M2				
	(iii) Battery Room 10 M2		i .		
	(iv) Charger room 12 M2				
	(v) Communication Room 12 M2				
	(vi) Kitchen 8 M2				
	(vii) Toilets , 8M2				
	(viii) Controller room 11 M2				
	Total = 195 M2				
	(b) Ancilary Out buildings:-				
	(i) Gate House & Toilets # 11 M2				
- 8	(c) Site Works				
	The General Construction description is as follows -				
	Reinforced concrete foundations and stone foundation walls				
	Reinforces concrete framed superstructure				
	Machine dressed stone walls				
	Steel roof construction and Box profile 28gauge roofing shhets				
	Aluminium and steel fabicated doors				
	Aluminium windows				
	Ceramic tiles and terrazzo floor finishes				
	Plaster and paint to all internal walls				
	Gypsum ceilings and cement/sand soffit finishes				
	Site Works consisting of the following				
	General Landscaping				
	Driveways, Parking and Walkways				
	Switchyard comprising of				
	Reinforced concrete switchgear foundations				
	• Reinforced concrete Transformer plinths				
	Reinforced concrete cable trenches				
	Water Reticulation				
	Storm water Drainage &Foul Drainage				
	General Landscaping				
	The Main Buiding Services comprises of-				
	Electrical and related Installations				
	Plumbing, Drainage, smoke detectors and Fire Figting Installations				
	The approximate overall floor area of the buildings is 240SM				
В	ABREVIATIONS		Ü .		
	CM shall mean cubic meter				
	SM shall mean square meter				
	LM shall mean linear meter			l	
	MM shall mean milimetre				
	KG shall mean kilogramme.				
1	NO shall mean number.				
	PRS shall mean pairs BS shall mean the current British Standard Specification				
	BS shall mean the current British Standard Specification published by the British Standards Institution, 2 Park street, London W1,				
	patients by the British Standards Institution, 21 and street, Bondon 117,				
	DITTO shall mean the whole preceding description except as qualified				
	in the description in which it occurs.				
	MS shall mean measured separately				
	BSM shall mean both sides measured				
	QTY shall mean quantity				
	TOTAL CARRIED TO SUMMARY PAGE				



	Description	Unit	Qty		
Λ	DRAWING				
	The drawing used in the preparation of these bills of quantities are listed				
	in the appendix to the bill of quantities			1 1	
В	Programme for Completion of the Works			1 1	
	(a) The works must be completed as early as possible and be carried out				
	in accordance with the Client preferred and approved programme of				
	works prepared by the contractor				
C	General Specifications			1 1	
_	The general specifications for reference in this contract are as follows:			1 1	
	The general specifications for reference in any contract are as follows.			1 1	
	1 Attached specifications			1 1	
				1 1	
	2. Kenya Bureau of Standard Specifications.			1 1	
	3 Any other relevant specification material issued by the Client or his			1 1	
	representative to amplify, compliment or clarify the primary specification			1 1	
	material			1 1	
	The Contractor will be required to maintain a set of the specification			1 1	
	documents on Site for ease of reference by the management team and			1 1	
	consultants			1 1	
	All material and workmanship used in the execution of the works shall be			1 1	
	of the best quality and specification unless otherwise described.			1 1	
)	Visitor's Book and Site Diary			1 1	
,				1 1	
	The Contractor shall keep on the Site a visitors' book for recording the			l I	
	names of all persons who visit the site for the purpose of the project. He shall also maintain on the Site a diary in which he shall record site			1 1	
				1 1	
	activities on a daily basis and particularly any occurrence which bears on the progress of the Works in any way. The visitors' book and the diary			1 1	
				1 1	
	shall be surrendered to the Client at the completion of the project or at			1 1	
	any other time that he may be directed			1 1	
E	Signboard			1 1	
	The Contractor shall allow for providing erect publicity, directional,			1 1	
	safety, etc sign boards, maintaining and later clearing away on			1 1	
	completion a site sign board. The positioning, the size, type of	ITEM	1	1 1	
	construction and lettering shall be to the attached sample and to client's			1 1	
	approval			1 1	
F	The Contractor must arrange for and provide a promp communication to	TTEN.	1	1 1	
	client supervision team throughout the contract period	ITEM	,	1 1	
3	Hearding			1 1	
	The Contractor shall allow for providing approximately 85m along the			1 1	
	frontage side of the main road, maintaining and later clearing away			1 1	
	completion such as hoarding, gates and the like as may be required for	ITEM	I	1 1	
	the security of the site and as instructed by the Client.			1 1	
F	Security of Works			1 1	
	The Contractor shall be entirely responsible for the security of all the			1 1	
	Works, stores, materials, plant, personnel, etc, both his own and sub-			1 1	
	contractors' and must provide all necessary watching, lighting and other	ITEM	1	1 1	
	precautions as necessary to ensure security against theft, loss or damage	111111	l '	1 1	
	and the protection of the public			1 1	
Ĵ	Site Offices			1 1	
3	25 76 76		l .	1 1	
	The Contractor shall allow for providing, maintaining and later clearing	TTTT: N. A.		1 1	
	away on completion adequate (about 12m) site offices with standard	ITEM	1	1 1	
	furniture for the use of the Project Manager and site meetings.			1 1	
I	Storage of Materials				
	The Contractor shall provide at his own risk and cost where directed on				
	the site weatherproof lockup sheds for the safe storage and custody of				
	material for the Works and for the use of workmen engaged thereon and	ITEM	,		
	shall remove such sheds and make good damaged or disrupted surfaces	TTEIV	'		
	upon completion to the satisfaction of the Project Manager				
				1 1	
	l .				



No.	Description	Unit	Qty	Rate	Amount
A	Tests The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be called by the Client for his approval or rejection and any other samples in the case of rejection until such samples are approved by the Client and the Client may reject any materials or workmanship not in his opinion up to to the approved samples.	ITEM	1		
В	Existing Property The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services, and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the Client.	ITEM	1		
C	Water and Electricity for the Works				
	The Contractor shall provide, at his own risk and cost, all necessary water, electric light and power required for use on the Works, hence transfer the particulars to Kenya Power after the completion of the works.	ITEM	1		
D	In liason with M/S KAKUZI LTD, Contractor shall allow for supply and connection of metered water to the substation,maintain and pay all the connection and running costs for the entire contract period	ITEM	2		
E	Safety Contractor should allow for a qualified/Competent saferty officer conversant with Kenya Power safety regulations for the entire contract period who will be responsible for receiving Electrical to work permits in daily basis The working hours shall be those generally given by the client in accordance with the safety regulations of substation. No work shall start in the absence of the safety person having received permit to work from the Client authorizing officer. All workmen must be provided with safety boots/shoes, branded overall and helmets, safety gloves, masks etc.	ITEM	1		
F	National Construction Authority The National Construction Authority is a state corporation established under the National Construction Authority Act No 14 of 2011. The broad Mandate of the Authority is to oversee the construction industry and coordinate its development.				
G	The National Construction Authority Regulations must be adhered to and relevant pennits obtained, supervision team and labourers be accredited and maintained at all times.	ITEM	1		
Н	Allow for establishement of survey beacons and confirmation certificate issued handed to Client prior to the commencement of the contract works. Contractor shall engage a licensed surveyor to establish the land beacons and in liason with KENHA and any other relevant statutory authority establish the building line along the main Highway.	ITEM	1		
1	Allow for providing the entire land spot heights and the contour profiles for establishment of the working levels.	ПЕМ	1		
J	Allow for all the necessary statutory approvals for the drawings for the proposed works from relevant authorities Including replication to required formats and necessary stamps approval for Engineer & Achitect and handover copy of drawing to client.	ITEM	1		



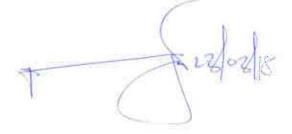
No.	Description	Unit	Qty	Rate	Amount
	BILL NO. 2. SWITCHYARD LEVELLING				
Α	Cut trees and uproot stumps of up to 1,0m and average diameter 300mm and cart away the wood as directed by client.	NO	20		
В	Excavate oversite to remove top vegetable soil average 200mm thick and cart away	SM	4640		
С	Bulk excavation to reduce levels commencing from stripped level not exceeding 1_50m deep.	СМ	2320		
D	Fill in with approved material on embakments to make up levels and compact to 95% MDD (AASHTO T99) in layers of 150mm	СМ	1879		
E	Apply suitable weed killer, herbicide to surfaces of blinding as per the Manufacture's written instructions	SM	3900		
F	1000 gauge polythene or other equal and approved membrane laid on compacted and treated quarry dust—with welted laps of 200mm wide.	SM	3900		
G	Supply and spread uniformly 150mm thick (1") ballast in switch yard-	SM	3900		
	singly graded				
Н	BILL NO. 3: ACCESS ROAD, DRIVEWAY & PARKING Mass excavation to reduce levels not exceeding 1 50m deep commencing				1
л	from stripped level average 300mm deep.	SM	630		
I	Load and cart away excavated material from site.	CM	189		
}	Ram and compact sub-grade ready to receive sub-base	SM	630		
К	Filling Imported filling material to make up levels	СМ	284		
L	300mm Thick handpacked hardcore, filling leveled, well rammed and consolidated in 150mm thick layers	SM	630		
N.		SM	465		
M N	50mm Thick quarry dust blinding	SM	150		
O	100mm Thick murran filling well compacted. 250 x 125mm High pre-cast concrete kerb bedded and jointed in cement	SiVI	130		
0	and sand (1-4) mortar including 325x100mm thick mass concrete class				
	20/20 in foundation and haunching at the back, all necessary formwork	LM	180		
	and excavations.				
n		LM	25		
P	Extra-over ditto for curved on plan to various radii 250 x 125mm High pre-cast concrete channels	LM	110		
Q R	Heavy duty industrial concrete paving blocks size (210x105x80mm)	LIVI	110		
K	minimum strength 49N/mm square laid in herringbone pattern laid to	SM	465		
	slope on quarry dust (measured separately) and compacted	5)11	403		
	BILL NO. 4: CULVERTS AND DRAINAGE WORKS				
S	Note: In Liaison with KENHA the contractor shall set the exact				
	position of the entrance culvert, acceleration and deceleration lanes				
	as approved.				
T	Excavate in any material in trench to a depth not exceeding 2.0m. Rate to include shaping and carting away of surplus material to	МЗ	33		
U	Excavate into any material for headwalls and wingwalls cart away to tips excess material	M3	6		
v	Provide, Jay and joint 900mm diameter pipes for service ducts as				
ľ	Engineer directs. The rate to include backfilling and compaction to drain formation level.	m	15		
w	Provide, place and compact 150mm class 15 (1.3.6) concrete bed and	M3	12		
X	surround to 900mm diameter pipes (0.8118 M3/m). Excavate, cut and shape in a V formation an earth drain into any material				
^	and cart away to tips excess material as directed by the Client	М3	270		
Y	Provide all materials and construct standard headwalls conforming to Standards Specifications as directed by the client. Use natural blue stone with a 1:3 cement mortar and key finish.	No	4		
Z	Provide, lay and joint 450mm x 225mm PCC invert block drains with	T NA	150		
	two (2) courses side slabs on both sides laid on a 100mm thick murram	LM	100		
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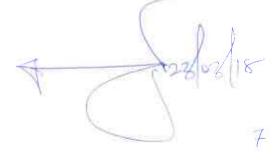
No.	Description	Unit	Qty	Rate	Amount
A	Provide all materials lay and joint shallow IBD as directed by the client to form mitre drains. Rate to include provision of 100mm well compacted	LM	30		
	murram bed and jointing with 1:3 cement mortar Provide all materials, prepare and construct 200mm thick grouted stone pitching laid on 100mm well compacted murram bed to inlets, outlets, slopes and drains. Rate to include 1:3 cement mortar	M2	60		
	300mm wide x 200mm deep (average) open stormwater concrete class 20 - 20 channel including all necessary excavations, 100mm murram bed and haunch all round, reinforcement, plaster in waterproof, with 350mm wide heavy duty grating made of 20mm diameter square twisted mild steel bars welded at 50mm centres to 25 x 25 x 3mm mild steel angle frame resting on 30 x 30 x 3mm angle frame fixed in concrete channel with fish tailed lugs.	6	LM		
	TOTAL CARRIED TO SUMMARY PAGE				

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No.	Description	Unit	Qty	Rate	Amount
	BILL NO 5: SWITCHGEAR FOUNDATIONS				
	The following Switchgear Foundation plinthes for structures steel, as per the General arrangement drawing(GA) and all to structural				
Α	engineers Excavate pit foundatins commencing from ground level but not				
/ 1	exceeding 1 50 metres deep	CM	130		
В	Ditto over 1.5m but not exceeding 3.0m deep	CM	4		
C	Return fill and ram selected excavated material	CM	66		
D	Cart away from site surplus excavated materilas to designated county	CIVI			
10	dumping site.	CM	68		
E	Disposal of water				
F	Keep excavations free from all water by baling, pumping or otherwise	Item	1		0
1		Rem			
0	Planking and strutting				
G	Planking and strutting to sides of all excavations keep excavation free	ltem	1		
	from all fallen materials				
	Plain concrete blinding 1:3:6	a.,	0.00		, ii
H	50mm thick	SM	87		
	Vibrated Reinforced Concrete Class 25/20 mm Aggregate in:-				
	r l.: . l	CM	22		
I	Foundation bases	CM	23		
J	Stub columns	CM	41		
	High vied Steel Reinforcement Deformed bar BS 44461		550	1	
M	D10	KG	752		
N	D12	KG	2114		
	Sawn formwork 225- 300mm high to:-	a			
0	Sides of bases	SM	65		
Р	Vertical sides of footing	SM	207		
	FINISHES				
Q	3 mm thick cement/sand steel float finish to stub column top surface to	SM	100		
	receive steel structure base plate measured separately				
R	Allow fo KPLC attendance for earthing anding supervision	ITEM	ì		
	BILL NO. 6: .TRANSFORMER PLINTH				
S	Excavate transformer pitcommencing from reduced level but not	СМ	120		
	exceeding 1,5 metres deep				
T	Return fill and ram selected excavated material to the sides of the plinths	CM	64		
U	Cart away from site surplus excavated materials to designate County	CM	56		l.
	dumping site.				
V	Plain concrete 50mmm thick blinding 1 4 8 to footing	SM	80		
	Vibrated Reinforced Concrete Class 25/20 mm Aggregate in:-				
W	Base	CM	24		
X	Pedestalls	CM	9		l
Y	Cover slab	CM	9		
Z	Sump walling	CM	9		l
	High Yield deformed Reinforcement Bars, to BS 4449 including				l
	cutting, bending, tying, fixing, and spacer blocks.				I
A1	D 8	KG	308		l
	D 12	KG	2862		I
	Hardcore filling				1
B2	Approved hardcore filling compacted to Engineer's approval	CM	32		Į.
C2	50mm thick blinding to surface of hardcore with lean concrete	SM	30		
D2	1000 gauge polythene sheet	SM	30		I
	Formwork				1
E2	Vertical sides of base	SM	8		I
F2	Vertical sides of pedestall walling	SM	72		I
H2	Vertical sides of sump walling	SM	105		
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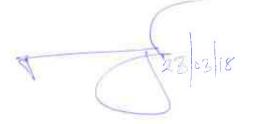
No.	Description	Unit	Qty	Rate	Amount
	Supply and fix fabicated gratting, of 40x40x4mm SHS framing				
	spaced at 50mm centres, as described:				
Α	Fabicated gratting size, 1.2×1.0m	NO	14		
В	Ditto but 1.0 x 1.0m	NO	2		
C	Ditto but 0.6x1 0m	NO	2		
	50x50x4mm angle line embedded in concrete sump walling to recive	710			
D		LM	80		
	gtratiing				
E	Provide galvanized 125 x 75mm U Channels welded to triangular shape				
	(1.5x1 2x1 9metres); placed in reinforced concrete size, 1.0x1.0metres),	NO	2		
	with approx. of the tip exposed above the concrete, including 50mm	1.0	_		
	diameter hole drilled on exposed section.				
	BILL NO. 7 : OIL INTERCEPTOR				
F	Excavate pit for oil interceptor depth not exceeding 1.50 metres deep	СМ	17		
	commencing from reduced level	01.1			
G	Ditto between 1 50m-3.00m deep	CM	3		
G	Extra-over ditto for excavating in rock	CM	L		
	Remove surplus excavated material from site	CM	21	1 1	
	Concrete Work:-				
	Mass concrete mix (1:3:6) class 10-15mm aggregate in;				
J	50mm Thick blinding laid to slope not exceeding 15				
J		SM	11	1	
	degrees from horizontal	SIVI	ш		
	Guaranteed strength vibrated reinforced concrete mix (1:11/2:3)				
	class 25/20mm aggregate in:-				
К	200mm Thick base	CM	2		
L	150mm Suspended slabs	SM	11		
	Machine dressed quarry stone walling bedded in cement and sand				
	(1:4) mortar in:-				
м	200mm Thick walls	SM	28		
	Reinforcement				
	High yield deformed reinforcement bars to B.S. 44461				
N	Assorted bars	KG.	120		
4		KG.	120		
^	BRC Ref. type A193 including 200mm laps in:-	03.4	1.1		
0	Floor bed	SM	11		
	Sawn formwork to:-		ı		
P	Horizontal soffits of suspended slabs	SM	11		
Q	Edges of suspended slab 75-150 mm high	LM	14	1	
R	Vertical edges of beds over 75-150mm high.	LM	14		
S	Extra-over boxing size 600 x 450mm to form opening through 150mm	210			
	thick reinforced concrete slab	NO	2		
	12mm Water proofed cement and sand (1:3) plaster			1	
T	Base	SM	11		
	I				
	Suspended slab	SM	11		
V	Walls	SM	28		
	Manhole Covers				
W	Cast fron medium duty manhole cover and frame size 600 x 450mm to				
	B S 497 frame set into cement and sand ((1.4) mortar: cover set in	NO	2		
	grease				
	Step Irons		1		
X	200min Wide galvanised step iron: twice bent and morticed into concrete				
· ·	walls	NO.	4	1	
	Class 41 PVC soil water vent pipes built into concrete	210			
N	100mm Diameter pipes 7500mm long.	NO	1		
Z	Extra for bend	NO	2		
				_	



No.	Description	Unit	Qty	Rate	Amount
	BILL NO. 8 ; SOAK PIT: 2NO.				
	Excavate and Earthworks				
Α	Excavate Pit for soakpit not exceeding 1.50 metres deep	CM	6		
В	Ditto between 1 50m-3 00m deep	CM	6		
C	Excavate Pit for soakpit between 3m-4.5m deep	CM	6		
D	Ditto between 4 50m-6 00m deep	CM	6		
Е	Remove surplus excavated material from site	CM	48		
F	Return fill and well ram selected excavated materials				
	around foundations	SM	6		
	Concrete work:-				
	Mass concrete mix (1:3:6) class 10-15mm aggregates in:-				
G	Foundation	CM	2		
	Guaranteed strength vibrated reinforced concrete mix (1:11/2:3)				
	class 25-20mm aggregate in;-				1
Н	150mm Suspended slabs	SM	10		
	Reinforcements				
	High yield sauare twisted bars to B.S. 4461				
I	8mm Diameter bars	KG.	160		
	Formwork				
	Sawn Formwork to:-				
J	Curved horizontal soffits of suspended slab	SM	10		
K	Curved edges of suspended slab 75-150mm high	LM	12		
	Ditto to bed	LM	24		1
M	Extra-over for boxing size 600 x 450mm to form opening through				
	150mm concrete slab	NO	2		
	Stone Walling				
	Machine dressed quarry stone walling bedded in cement and sand			l	
	(1:4) mortar in:-				
N	200mm Thick curved walls	SM	20		
	Form hole through 200mm stone walls for extra large pipes	NO.	2		
	12mm Water proofed cement and sand (1:3) render steel trowelled			l .	
	smooth to:-				
P	Suspended slab	SM	10	l	
0	Walls	SM	20		
	Manhole Covers:				
R	Cast iron medium duty manhole cover and frame size 600 x 450mm to				
	B.S. 497 frame set into cement and sand (1-4) mortar: cover set in grease	NO.	2	1	
	2 2			l .	
	Fillings to Soakpit				
S	Approved hardcore of 100-200mm diameter fillings	CM	44	1	
	Excavate trench for 100mm diameter foul water drain pipes not			l	
	exceeding 1,50 metres deep, part return, fill in and ram and cart away	LM	50		
	surplus excavated material	2			
	Allow for maintaining and upholding sides of excavations and keep free				
	from fallen materials	ITEM	1		
V	Allow for keeping excavations free from water bymeans of pumping.				
	bailing or any other approved method.	ITEM	1	l .	
	Underground class 41 PVC soil water pipes				
w	100mm. Diameter and laying in trenches.	LM	50		
VV	Beds and Surrounds	LIVI	30		
	150mm Thick concrete (1:3-6) bed and surround to, 150mm diameter			l .	
v	pipe, allowing for all necessary formwork	LM	50		
	pipe, allowing for an necessary formwork				
	pipe, allowing for an necessary torinwork				
	pipe, allowing for an necessary torinwork				
	pipe, allowing for an necessary toninwork				7
	pipe, allowing for an necessary toninwork				
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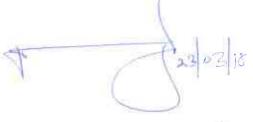
No.	Description	Unit	Qty	Rate	Amount
Α	Manholes:- Prices shall include for all necessary excavations, part return, fill in and ram and remainder cart away. Prices shall also include for all necessary machine cut stones, reinforcement, formwork, plaster in waterproof cement and sand, heavy duty manhole covers and step irons as necessary				
	Standard rectangular manhole consisting of 150mm concrete (1:3:6) bed and 250mm benching; 150mm solid concrete blocks; cement and sand (1:4) water proof rendering internally: standard heavy duty cover and frames to B.S. 497; holes for and disposal from site; formwork:- extra large pipes; channels and beds; excavations				
В	Manhole size 1000 x 900 x 750mm deep to invert level 300mm wide x 200mm deep (average) open stormwater concrete class 20 - 20 channel including all necessary excavations, 100mm murram bed and haunch all round, reinforcement, plaster in waterproof, with 350mm	NO	4		
	wide heavy duty grating made of 20mm diameter square twisted mild steel bars welded at 50mm centres to 25 x 25 x 3mm mild steel angle frame resting on 30 x 30 x 3mm angle frame fixed in concrete channel with fish tailed lugs.	LM	6		
	BILL NO 9: CABLE TRENCHES; 1200x 1500mm deep, 900x900mm deep & 600x600mm deep				
D	Excavate for trench from reduced level not exceeding 1.5 metres deep and cart away	СМ	288		
E	Concrete work 50mm thick plain concrete(1 4 8) blinding on cable trench bed Vibrated reinforced concrete class 20/20 1:2:4 as described in:	SM	255		
F	100mm thick trench bed	SM	270		
G	150mm thick trench walls with fair face finish	SM	450		
Н	Wrot formwork to Sides of trench wall	SM	1069		
	High Steel reinforcement bars including tving bending spacer blocks tving wires and fixing high tensile bars to BS 4461				
J	D 8 at 150 centres in cable trench Precast concrete trench covers Provide and put in place (1200x300x75mm) thick precast concrete trench	KG	3680		
	covers reinfoced with Y8 bars spaced at 100mm both ways with fair face finish on both side; with all edges protected with 25x25x 3mm angle iron and lifting handles	NO	170		
K	Ditto but 1800x300x75inm thick	NO	270		
L	Ditto but 900x300x75mm thick	NO	335		
M	Prepare and apply undercoat zinc chromate primer to all general metal surfaces.	SM	260		
N	Ditto but two coats of gloss aluminium paint. Cable trays	SM	260		
0	Supply and fix steel fabricated cable trays of 50x50x4mm thick SHS frame, jointed together with 50x50 x4mm thick cross bar for 900mm wide trench and spaced at 400 centres to form cable tray and arised 200mm above trench bed with adequate support.	LM	50		
Р	Ditto but for 1200mm wide trench	L.M	50		
r Q	Ditto but for 600mm wide trench	LM	100		
R	Prepare and apply undercoat of zinc chromate primer to all general metal surfaces.	SM	348		
S	Ditto but two coats of gloss aluminium paint.	SM	348		
Т	Cable Hangers Supply and fix steel fabricated cable hangers of 50x50x5mm thick and				
i	1400mm long, fixed with rowl bolts or welded on 150mm long M.S. inserts in the vertical sides of concrete cable trench wall at 900mm	NO	180		
	centres. (see attached)				
_	TOTAL CARRIED TO SUMMARY PAGE				



No.	Description	Unit	Qty	Rate	Amount
Α	Prepare and apply zinc chromate undercoat primer to all general metal	SM	99		
В	surfaces. Ditto but two coats of gloss aluminium paint.	SM	99		
	Cable Ducts				
C	Supply and lay 150mm diameter heavy duty PVC ducts as cable ducts	LM	80		
D	Ditto but 90° and 45° bends	NO	12		
3	Ditto but Tees	NO	12		
F	100mm thick concrete (1:3:6) bed and surround to, 200mm diameter pipe, allowing for all necessary excavations and formwork.	LM	80		
		1			
		l			
		L			

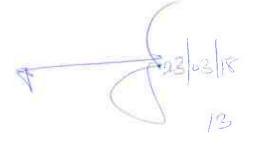
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No.	Description	Unit	Qty	Rate	Amount
	BILL NO.10: CONTROL BUILDING				
	BILL NO.10: CONTROL BUILDING				
	ELEMENT NO 1: SUBSTRUCTURES				
	Excavations				
	General excavations to include excavating in loam, clay, Black cotton				
	soil, red soil or any soil which does not require ripping or use of				
Α	compressor tools Excavate average 200mm deep to remove top soil and dispose.	M2	262		[
В	Excavate trenches for wall foundations: commencing from reduced level		55		
	and not exceeding 1.5 metres deep	M3			
С	Ditto over 1.5m deep but not exceeding 3 0m deep Excavate pits for column bases	M3 M3	13 38		
D E	Ditto over 1.5m deep but not exceeding 3.0m deep	M3	15		
F	Ditto but cable trenches	М3	77		
G	Extra over excavation for excavating in hardrock all classes.	М3	5		
Н	Backfilling around Foundations Backfill around foundation selected excavated material placed 'n				
11	200mm thick layers well watered and compacted to 98% MDD	M3	59		
	Disposal of Excavated Material				
J	Surplus excavated material remove and deposit in spot heaps on site	M3	203		
J	Disposal of water Keep excavations free from all water by baling, pumping or otherwise	ITEM	1		
,	Planking and strutting	11 [2]41	,		
K.	Planking and strutting to sides of all excavations : keep excavation free	ITEL 4	,		
	from all fallen materials	ITEM	1		
	Imported Hardcore				
L	Approved quarry stone hardcore 450mm thick (overall) ; hand packed and well compacted in 150mm thick layers	M3	93		
	Murram Blinding				
M	50mm Murram blinding to surface of hardcore	M2	185		
	Antitermite Treatment				
N	Chemical antitermite treatment to murram filling , Dragnet 30% EC or	M2	185		
	equal and approved provide 10 year guarantee Insitu Concrete: Class 15/25mm				
O	50 mm Blinding layer: under wall foundations.	M2	40		
P	Ditto under column bases.	M2	25 62		
Q	Ditto under cable trenches/channel; Insitu concrete : class 25/20 : vibrated : reinforced	M2	02		
R	Strip foundations trenches	M3	8		
S	Column bases.	M3	8		
T	Column stubs	М3	3		
U	Cable trenches	М3	15	1	
V	Bed to cable channel/trenches , laid to falls	M3	7	l l	
W X	150mm thick floor bed Ramp	M2 M3	185 2		
Y	11kv switchboard panel pad supports	M3	2		
	Mesh fabric reinforcement to BS 4483 : 200mm laps		l i		
Z	Fabric mesh reference A142 weighing 2.22kg per square metre : in floor	M2	185	l	
	beds	2.72		l	
	High yield steel bar reinforcement to BS 44461	V.C	1100		
A1 B1	D 8 D 10	KG KG	1198 202		
Cl	D 12	KG	261		
DI	D 16	KG	1207		
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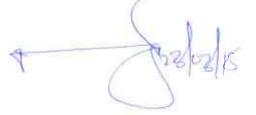


No.	Description	Unit	Qty	Rate	Amount
	Wrot formwork : to				
Α	Vertical sides column bases	M2	40		
В	Vertical sides column stubs	M2	65		1
C	Ditto : strip foundations	M2	21		
D	Ditto sides of channel/trench walls	M2	191		
E	Vertical edge of floor bed	m	65		
F	Extra-over for boxing size 400 x 400x600mm deep to form control panel	No	8		
l	grooves on 150mm thick concrete slab.	NO	0		
G	Vertical sides of ground beam	M2	40		
	Quarry natural stone bedded and jointed in cement and sand				
	(1:3)mortar : 20 gauge x 25mm hoop iron in every alternate course				
Н	200mm Walling	M2	120		
I	One layer 1000 gauge polythene sheet damp proof membrane; under				
1	beds 300mm laps.	M2	185		T
J	Makes 200mm diameter holes on walling	No	30		
K	Ditto but concrete 200mm cable trench	No	30		
Ļ	Supply and lay 200mm diameter heavy duty PVC ducts as cable sleeves				
	coppi, and it, account attained ristry day 1 to autinate state size is	LM	90		
М	100mm Thick concrete (1:3:6) bed and surround to; 200mm diameter	1 3.4	00		
	pipe, allowing for all necessary formwork	LM	90		
N	6mm Chequer plate trench cover to 600x600mm trench of average size				
	700x800mm comprising 25 x 25 x 3mm RHS cross members welded	3.40	40		
	to and including 25 x 25 x 3mm RHS as edge frame : in 750mm lengths	M2	40		
0	Ditto but 1000x1200mm trench of average size, 700x800mm	M2	9		
P	Ditto but 1000x1200mm trench of average size, 400x800mm	M2	5		
Q	Ditto but 400x400mm control panel groove of average size,450x400mm	, ,,			
		M2	2		1
R	40x40x 3mm Angle frame set in fillet in concrete sides of open channel				
	50x3mm lugs at 1000mm centres with fish tail ends cast into concrete	ĽМ	144		l)
S	Prepare and apply undercoat of zinc chromate primer to all general metal	SM	160		
	surfaces	3373	100		1
T	Ditto but two coats of gloss aluminium paint	SM	160		
	Cable trays				1
U	Fabricate and fix steel cable trays frame for 900 x900mm cable trench,				5
	comprising of 50x50x4mm thick SHS frame, weld together with 900mm	LM	15		
	wide 50x50x4mm struts, spaced at 400mm C/C to horizontal; to form	Civi	,,,		
10	cable tray and rised 200mm above the trench floor				
V	Ditto but for 600 x 600mm cable trench.	LM	53		
W	Supply and fix 150x50x6mm thick RHS anchored on concrete pads	LM	15		ľ
	(measured separately) to client satifactory	CIVI	1.7		
					1
	ELEMENT NO.2: CONCRETE SUPERSTRUCTURE				
Ų.	Incity concrete: class 25/20 withrated wainfavord in-				
x	Insitu concrete: class 25/20 : vibrated reinforced in; Columns	M3	6		
Y	Ring beams	M3	5		ř.
2.	Ditto intermediate beams	M3	8		
A1	Ditto : Lintels	M3	1		
Bl	Ditto but 150 mm thick suspended slab	M2	229		
, D	Hieh yield deformed bar reinforcement in beams and suspended	77.32	-27		
	slab to BS 44461, including, cutting, bending, tying wire and spacer	- 2			
	blocks;				
Cl	D 8	KG	429		
	D 10	KG	2451		
	D 12	KG	270		
Fl	D 16	KG	501		
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	- C - LL CINEMADA - C COUNTRAINS - EXCEC				

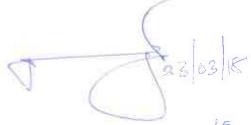
No.	Description	Unit	Qty	Rate	Amount
	Wrot formwork : to		100		
	Vertical sides of columns	M2	100 93		
A B	Sides and soffits of Ring beams Ditto intermediate beams	M2 M2	71		
С	Ditto lintels	M2	14		
D	Ditto soffits suspended slab	M2	204		
E	Ditto sides of suspended slab	M	65		
	100				
	ELEMENT NO.3: WALLING				
	Machine cut natural stone blocks or other equal and approved				
	building blocks: minimum compressive strength 7N/mM2: regular				
	coursed walling of uniform colour : bedded and jointed in cement				
	and sand (1.3) mortar 20 gauge x 25mm hoop iron in every				
	alternate course				
F	200mm Walling - external	M2	171		
G	200mm Walling - internal	M2	315		
	Damp proof courses ; bituminous felt : hedded in cement mortar (1:4) : 300mm laps				
Н	Horizontal 200mm wide	m	73		
	Precast concrete units : Class 20/20 : reinforced as necessary				
	for handling: fair face finished on all exposed faces				
I	250 x 75mm Cill once weathered and throated bedded in cement	m	25		
	mortar 1.4)	***			
	ELEMENT NO 4: WINDOWS				
	Aluminìum				
	Mediam duty anodized aluminium windows complete				
	with all necessary framing, million, transome, mosquito				
	proofed hooded permanent vents, all necessary pegs,				
	prime, quality handle, pointing with approved mastic				
	sealant all round, 6mm thick laminated glass				
J	Window overall size 1800 x 1500 mm high; 2No. Sliding leaves	NO]4		
K	Ditto but size 1.0 x 1.5m high	NO	2		
L	Ditto but size, 1.0 x 1.0m high	No NO	1 2		
М	Ditto but size, 0,5 x1 0.m high Burglar proofing	NO	<u> </u>		
N	12mm Diameter round mild bars welded to each other at 150mm centres				
.,	both ways with every alternate bars welded to window frames (m.s)	M2	30		
	Window Cills				
O	200 x 150 x 30 mm thick concrete window cill with one curved edge	LM	25		
ъ.	including bedding and pointing in cement and sand mortar (1:3) mortar	SM	6		
P	Prepare and apply two coats of brick red paint	21/1	0		
	ELEMENT NO.5; DOORS				
	Steel Doors				
	Supply and fix the following purpose -made steel doors, including				
	fixing lugs, once shop primed with one coat red oxide primer before				
	delivery to site, complete with frames and including all ironmongery				
	to Client approval and as per Door drawing: SK NO, 06449				
	BAT AND INSECT PROOFING				
	Mild steel Bat and insect proofing screens panels in lourver opening.				
	including 13 x13 x 3mm flat frame in panels; welded one face with				
	and including coffee tray gauge wire mesh: one shop coat red oxide				
	primer: to	NO	2		
Q	Double leaf door overall size 2000 x 3000mm high Ditto but Single leaf door overall size, 1500 x 2500mm high	NO NO	6		
R	Ditto out Saigle leaf door overan Size, 1500 x 2500tilli ingil	140			
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No.	Description	Unit	Qty	Rate	Amount
А	Aluminium Door Medium duty aluminium door overall size 1000 x 2500mm high complete with locking devices and housing on top all to Client's approval.	No	7		
В	Supply and fix first grade emergency panic lock on the 1500mm wide doors to client approval	NO	3		
C	Prepare and apply gloss paint to general surfaces, steel doors; both sides measured	M2	66		
	ELEMENT NO.6: FLOOR FINISHES				
D	Cement and sand (1;4) trowelled screeds ; on concrete : to 25mm Floor screed to receive terazzo including plastic diving strips	M2	185		
E	Polished Terrazzo Floor Finishes on concrete	SM	185		
F	30mm thick terrazzo floor finish		115		
e G	Ditto 25mm thick Skirting 150mm high: Non-Stip Ceramic Tiles 300 x 300 x 6mm Thick ceramic floor tiles approved bedded and jointed	m			
	in cement and sand (1:4) mortar and pointed with neat coloured cement.	M2	8		
Н	100 x 6mm High ceramic tiles skirting bedded and jointed in cement and sand mortar (1.4) and pointed with neat coloured cement	m	12		
i	Skirting 20×100 mm High cement and sand skirting with rounded top and curved junction with floor finish	ın	12		
	ELEMENT NO.7: WALL FINISHES 12mm lime plaster in two coats : steel trowelled finish : on				
J	concrete or blockwork : to Walls and columns Prepare and apply three coats PVA matt vinyl emulsion paint on	M2	510		
K	Plastered walls, columns and beams.	M2	650		
1. M	Ditto but soffit of suspended slab 200 x 300 x 4mm Thick glazed ceramic wall tiles fixed with approved	M2	220		
	quality adhesive in accordance with the manufacturers instructions on and including 12mm thick cement and sand screed backing jointed, pointed and grouted in matching colour coloured cement grout and Plastic corner strips to edges of tiled surfaces	SM	15		
N	Key pointing in cement sand (13) in horizontal joints.	M2	171		
0	Plinth walls and edges of floor bed	M2	26		
	Prepare and apply three coats first grade external quality				
P	paint : to Columns and beams	M2	128		
Q	Prepare and apply three coats bituminous paint: to Plinth area and edges of floor bed	M2	26		
	ELEMENT NO.8: KITCHEN				
R	100mm thick 1:2:4 concrete in kitchen work top	SM	2		
S	Y 10 reinforcement bars at 150 centres	KG	17		
T	150mm block wall	SM	2		
U	12mm thick mix 1 3 cement sand plaster	SM	5		
V	Single drain single bowl stainless approved kitchen sink	NO	ì		
W	Bricon or approved kitchen mixer tap	NO	ì		
Х	900x600mm wide 20mm thick MDF board bottom cabinets comprising of 2No. Cabinents, 4No. Drawers including fixing, mouver hinges, rails, handles and approved finishes.	ITEM	1		
W	Ditto in locable overhed cabinets but with 3No. open shelves	ITEM	1		
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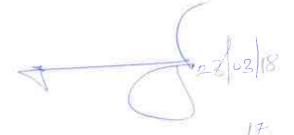


No.	Description	Unit	Qty	Rate	Amount
Α	10mm thick granito tiles finishes on the kitchen work top fixed with				
	approved quality adhesive in accordance with the manufacturers				
	instructions on and including 12mm thick cement and sand screed	SM	2		
	backing jointed, pointed and grouted in matching colour coloured	3741			
	cement grout and alluminium corner strips to edges of tiled surfaces				
	g.out and analysis to tage of the analysis				
	ELEMENT NO.9: DRAINAGE AND PLUMBING WORKS				11
	To supply and install the following Sanitary fittings including all the				li .
	necessary joints to service overflow and waste pipes, jointings and				
	motices, plugs, screws bolts and making good. Sanitary Fittings will				
	be to Client's approval of the relevant samples				
В	Approved Standard white countertop wash hand basin size: 585x430mm				
В	on with one center tap hole and a 2 nd RHS tap hole for Basin top				
	mounted under counter soap dispenser. Cobra single lever mixer tap with	NO	2		
		NO			
	pop up waste: and plastic bottle trap 32mm dia with seal.				
С	Approved standard WC white wall concealed cistern white seat & cover			1	
	unit to have short siphon internal overflow and wide mouth WC P-trap	NO	2		
	waste outlet.				
)	Stainless steel toilet roll holder with top flap cover	NO	2	l l	
Ē	Stainless Steel basket soap dish size 200x150mm.	NO	1	l ï	
F	Approved standard hand drier with infrared sensor and DP Switch with	NO	1		
	wiring	INO	, ,		
G	Aluminium coat/towel hook complete with screw to wall fixtures and	NO	2		
	rubber door stopper	110			
H	Approved standard basin mounted push action stainless steel liquid soap	NO	2		
	dispenser with 0.5 litre under counter soap holder	110	1 1		
J	"Bevelled" Mirror to Client's approval fixed on wall with chrome plated	NO	1		
	dome headed screws. Mirror size 600 x 800mm high	110	1		
	Internal Plumbing Water Suddly				
J	To supply & install PP-R (PN 20) stable tubing (pipes) of various size a				
	necessary and tenderer must allow for jointing, clipping reducers'				
	couolina, bends, reducers, tees, sockets, approved gate valves, flexible	ITEM	1		
	connectors floor traps, angle valves etc necessary for the proper and				
	satisfactory functioning of the installation when pricing.				
	ELEMENT NO.8: PAVING				
K	150mm thick Hardcore bed deposited, spread, levelled and compacted	M2	82		
	to receive sand bed	1412	0.2		
L	50mm Sand bed - levelled and compacted to receive paving	M2	82		
И	50x 600 x 600mm precast concrete (class 20) paving slabs laid on sand	M2	82		
	V				
	ELEMENT NO. 9: FIRE FIGHTING EQUIPMENT				
	Supply and fix controlled fire extinguisher manufactured to BS EN 3-				
	9:2006, Bs 7863:2009, BS 5306-4;200 and the cylinder manufactured to				
	BS 5045 complete with the following: Charge and fixing bracket,				
	Pictorial instructions, Colour code, Servicable on site, Brass hot				
	stamping and Operating valve as described				
	9 litre carbon dioxide fire extinguisher complete with re-fills, discharge				
7	horn and fittings to wall bracket, as manufactured by Angus or equal and	No.	4		
	approved				
	9Kg dry powder multi-purposed fire class A'B and C as manufactured by				
Э	Angus Fire Armour ABC multi-purpose model AP 9 K or equal and	No	4		
	approved				
Р	Fire blanket in canvas as Angus Fire Armour	No.	2		
Q	4 5Kg Co2 Powder Fire Extinguisher as Angus Fire Armour	No	4		
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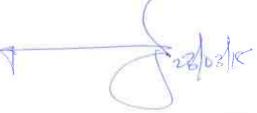


No.	Description	Unit	Qty	Rate	Amount
	ELEMENT NO. 10: SMOKE DETECTORS				
Α	Allow for Hardwired Smoke detectors installations; including a battery	ITEM	l i		
	back up; to be carried out by a nominated sub-contractor	1115171	'		
В	Allow for general attendance on specialist contractor	ITEM	1		
C	Builder's 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,	ITEM	j		
	electrical wiring, mounting brackets, smoke detector feeds, fire alarm				
	points etc				
	ELEMENT NO.11: ELECTRICAL INSTALLATIONS WORKS				
D	Allow for electrical installations to be carried out by a nominated sub-				
	contractor as per electrical Drawing No SK No. 08280/B Sheet 1C -				
	lumpsum and to comprising the following ,1No. 12 way 3-phase 415V	ITEM	1		
	distribution board rated 100Amps complete with 3 phase MCBS,				
	32Amps -2set and six 1Phase way MCBS 16Amps.				
E	Ditto 1No. Consumer unit rated 60Amps, 6 ways each MCBS rated 32				
	and 16Amps.	ITEM	1		
	ELEMENT NO.12: SUBSTATION LIGHTING				
F	Supply 6 No. approved standard street light steel posts, 100W, LED	ltem			
,	Floodlights fittings complete with control gear and lamps complete with	110111			
	wiring in twin with earth 1 5mM2 wiring to each lamp including post				l.
	foundations, 1No. 6 ways consumer unit, 1No. 1No. 40A double pole				
	contactor, 3No 15A miniature circuit breakers, 1No, 40A current		1		
	operated earth leakage circuit breaker with rated leakage current of 0.5A,				1
	2No. dawn to dusk timer switch with manual overriding switch for the				
	street lights				
G	Earthing comprising of 60mM2 earth lead and 1800mm long by 15mm	No			
	diameter copper earth electrode with driving tip and clamp in a 300mm		2		
	by 300mm concrete manhole with removable cover, 1No 63A MCB with				l
	enclosure,				
H	10.0mM2 x 2core PVC/SWA/PVC copper cable to connect power from	LM			1
	the gate house to the respective lighting posts including cable glands to			l	ľ
	terminate the underground cable		150		
l	Trenching, cable laying, ducting and back filling	I.M	150		
J	Ditto but at the gate pillars approved standard.	NO	2		
K	Supply and fix emergency chargeable lights in the control room to client	NO	2		
	approval.	NO	<u> </u>		
	AC Auto changeover Distribution Panel				
L	AC Auto changeover Distribution Panel as attached specification				
**	document No. KP1/6C.1/13/TSP/09/092	NO]		
	Fumes Extractor Fan			1	
М	Supply and fix 450x450mm extractor fan in the battery room including				
2	the wiring accessories.	NO	1		
	Door Bell				
N	Supply, install, test and commission door bell between the controller				
14	room and gate house including all the necessary wiring accessories.	ITEM	1		
	Toolin and gate house including art the necessary wiring accessories.				
			l	1	
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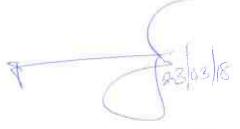
ю.	Description	Unit	Qty	Rate	Amount
	ELEMENT NO 13				
	ROOFING & RAINWATER DISPOSAL				
	Structural Steel work				
	The following in framed structural steelwork; complete with and including all welded and bolted connections; delivery to site and				
	erection with and including one shop coat of zine plumbate primer				
	The state of the s				
4	7 No. structural steel roof trusses spanning 10750 mm girth boisting				
	and fixing approximate 4.5 M above ground level:				
3	100 x 50 x 4 mm thick RHS rafters	LM	85		
-	50 x 50 x 3 mm SHS struts and tres	LM	145		
)	50 x 50 x 3 mm SHS tie beam	LM	55		
Ξ	100 x 100 x 6 mm thick base plate welded to truss drilled with 4No.	No	14		
	holes for 12 mm diameter bolts Supply and fix 150x51x2mm 'Z' - purlins with welded cleats and bolted				
2	to rafters primed	LM	224		
	Fabricate steel framework comprising of SHS 40x40x4mm thick to form			1 1	
	vertical facsia cladding, comprising of vertical and horicontal members,				
;	bracings, struts runners all adequately and including fixing into position	LM	590		
	in to client satisfaction				
	Supply and fix BP760 box profile factory pre-painted gauge 28 full				
ŀ	length roofing sheets to an approved colour laid with 94mm side laps and	SM	270		
1	fixed to steel 'Z' purlin (m/s) including self tapping screws/bolts as	DIVI	270		
	necessary				
l	Ditto but vertical sides of fascia cladding framework and gable sides	SM	85		
J	Ditto but eave covering	SM	40		
(Supply and fix 28Gx320mm with stiffed ridge caps	LM	23	1 1	
	Rainwater Goods				
	Supply and fix 14 gauge Mild steel sheet purpose made box water gutter,				
L	1200mm girth; to sit and fixed on eave cover framework as described	LM	46		
	(ms) and to rafters	N0	4		
1 1	Extra over for stopped ends. Ditto 100mm diameter holes in gutter	N0	2		
)	100mm diameter down pipe	LM	12		
	Extra-over down pipe for 900mm girth swaneck including, tightly		l .		
P	secured with sandle clips at 750mm cenetres.	NO	2		
9	Extra over downpipe for 300m shoc	NO	2		
	Painting generally				
2	Prepare and apply 2 coats of red oxide primer and apply 2 coats of	SM	1		
`	alluminium finish on rainwater goods	514	,		
	Prepare and apply two coats black bituminous paint in rainwater gutters	SM	55		
	internally				
	EVTERNAL WORKS				
	EXTERNAL WORKS				
	BILL NO.11: Gound Mounted Water Tank Plinth				
3	Excavate Pit for water tank not exceeding 1,50 metresdeep	8	СМ		
Γ	Remove surplus excavated material from site	7	CM		
j	Return fill and well ram selected excavated materials around foundations	1	CM		
,		1	CIVI		
	Concrete work:-				
	50mm thick plain blinding concrete mix (1:4:8) class 10-15mm				
	aggregates in:-				
V	Foundations	10	SM		
	Guaranteed strength vibrated reinforced concrete mix (1:11/2:3)				
	class 25-20mm aggregate in:-	^	034		
	Base,	3	CM		
N	Ditto but curved 250mm thick walling	2 2	CM CM		
K	Ditto but curved 300mm thick top cover	4	CIVI	ı I	



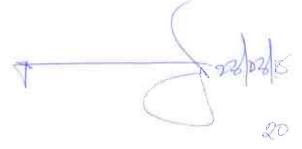
No.	Description	Unit	Qty	Rate	Amount
	Reinforcements				
	High yield deformed bars to B.S. 4461				
	D 8	31	KG,		
	D 12	635	KG		
	Wrot Formwork to:-				
A	Curved base 225-300mm high	11	SM		
В	Curved edges of walling	18	SM		
	Fillings				
C	Approved hardcore of 100-200mm diameter fillings	4	CM		
	THE PLANT OF THE WAY AND STORE OF TANK STEEL				
	BILL NO.12: ELEVATED WATER STORAGE TANK STEEL				ľ
D	TOWER Excavate for column pits 1.5m deep commencing from stripped level but				
	not exceeding 1.5 m deep	CM	6		
E	Extra over excavation in rock of all classes.	CM	2		
F	Remove surplus excavated material from site	CM	4		
G	Return fill and well ram selected excavated materials	CM	2		
	around foundations				
Н	50mm thick 1 4 8 blinding to column bases	SM	4		
	Vibrated reinforced concrete class 20/20 1:2:4 as described in:				
1	Colomn bases	CM	1		
j	Stubs	CM	i		
"	High Steel reinforcement hars including tving bending spacer blocks	0			ł
	tying wires and fixing high tensile bars to BS 44461				
K	D 12	KG	104		
L	D 8	KG	18		
M	Allow for accurately setting 16 No. 20mm diameter galvanised steel				
1	foundation bolts at 250mm centres on foundation column plinths.	ITEM	1		
N	Wrot formwork to sides of columns	CM	2		
0	Bases	SM	5		
Р	Vertical sides of stub	SM	7		
Q	10mm thick top finish of cement/sand screed	SM	4		
1	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				
D .	200 . 200 . 10				
R	300 x 300 x 10mm thick base plate with 4no 18mm diameter holes	NO	4		
	spaced at 250mm centres and welded to the bottom of tower column				
S	100x100x8mm mild steel SHS in main framework, welded to base plates	LM	24		
1	and reinforced with 32No. Cleats		- '		
T	Ditto decking 100x50x6mm RHS	LM	11		
U	Ditto decking 100x50x4mm RHS	LM	22		
V	Ditto (50x50x6mm) in bracing and struts	LM	68		
W	Class A 42mm diameter balustradings	LM	12		
X	Ditto but handrail and cross member	LM	22		
Y	4mm thick galvanised chequered plate welded on decking	SM	8		
Z	Allow for water storage tank 6.0m high access ladder with 50x50x4mm main frame with 16mm rods spaced at 300mm c/c	ITEM	1		[
	Apply two coats of gloss paint to tower	Item	1		
Al Bl	Supply and install 3500 litres capacity APPROVED PLASTIC TANK	Helli	1		
D1	including hoisting to position and applying two coats of brilliant white	NO	1		
	gloss paint on its outer surface	1,0	, ,		
C1	Ditto but 6000 litres placed on concrete water tank plinth (separately				
	measured)	NO	1		
DI	Allow for connecting piped water to both elevated storage and ground				
-	mounted water tanks using 25mm PN20 pipes including accessories, gate	ITEM	1		
	valves, foot valves, non-return valves				1
E1	Supply and connect water control fittings including fully installed 0.5hp	177773.4	,		
1	booster pump	ITEM	1		
Fl	Prepare apply two coats of zinc chromate paint to general sufaces of	ITEM	, 1		
	metal	ITEM	1		
	TOTAL CARRIED TO SUMMARY PAGE				



No.	Description	Unit	Qty	Rate	Amount
	BILL NO.13: FOUL DRAINAGE				
	Septic Tank : 1No.				
	Excavation and Earthworks			1 1	
Α	Excavate pit for Septic Tank depth not exceeding			1 1	
В	1.50 metres deep commencing from reduced level	26	CM	1 1	
C	Ditto between 1.50m-3.00m deep	25	CM	1 1	
D	Extra-over ditto for excavating in rock	17	CM	1 1	
E	Remove surplus excavated material from site	68	CM	1 1	
	Concrete Work:-			1 1	
	Mass concrete mix (1:3.6) class 10-15mm aggregate in,			1 1	
F	50mm Thick blinding laid to slope not exceeding 15			1 1	
	degrees from horizontal	17	SM	1 1	
	Guaranteed strength vibrated reinforced concrete			1 1	
	mix (1:11/2:3) class 25/20mm aggregate in:-			1 1	
G	200mm Thick base	18	SM	1 1	
Н	100mm Thick baffles to walls	5	SM	1 1	
1	150mm Suspended slabs	18	SM	1 1	
J	150mm Benching to form channels	1	SM	1 1	
K	200mm Thick walls	54	SM	1 1	
	Reinforcement			1 1	
	High vield square reinforcement bars to B.S. 44461			1 1	
L	Assorted bars	335	KG	1 1	
	BRC Ref. type A193 including 200mm laps in:-			1 1	
M	Floor bed	18	SM	1 1	
N	Walls and baffles	6	SM	1 1	
	Wrot formwork to:-			1 1	
O	Horizontal soffits of suspended slabs	18	SM		
P	Vertical sides of baffles walls	10	SM	1 1	
Q	Edges of suspended slab 75-150 mm high	18	LM	1 1	
R	Vertical edges of beds over 75-150mm high.	20	LM	1 1	
S	Extra-over boxing size 600 x 450mm to form opening through 150mm	2	NO.	1 1	
	thick reinforced concrete slab	2	NO.	1 1	
T	Ditto size 600 x 800mm ditto	2	NO	1 1	
	12mm Water proofed cement and sand (1:3) render: steel trowelled			1 1	
	smooth to:-				
U	Base	18	SM	1 1	
V	Suspended slab	18	SM	1 1	
W	Walls	54	SM	1 1	
	Manhole Covers				
X	Cast from medium duty manhole cover and frame			1 1	
	size 600 x 450mm to B S 497: frame set into cement			1 1	
	and sand ((1.4) mortar: cover set in grease	2	NO.		
Y	Ditto size 600 x 800mm ditto	2	NO		
	Step Irons				
Z	200mm Wide galvanised step iron twice bent andmorticed into concrete	8	NO		
	walls	0	NO.	1 1	
	Class 41 PVC soil water vent pipes built into				
	concrete				
A1	100mm Diameter pipes 200mm long.	1	NO,	1 1	
В1	Extra for bend with mosquito gauze soldered on	2	NO	1 1	
CI	Extra for equal tee	1	NO		
DI	Extra for nipple	2	NO		
E1	Extra for flange	1	NO.		
Fl	150mm Diameter stand pipe 800mm long	2	NO	1 1	



No.	Description	Unit	Qty	Rate	Amount
	BILL NO.14: BOUNDARY WALLS AND GATES				
	Excavations and Earthworks:-				
Α	Excavate trench for strip foundations not exceeding 1 50 metres deep	181	CM		
	commencing from reduced level.	,01			
В	Ditto pits for column bases	164	CM		
C	Ditto pits for column bases over 1.5m deep but n.e. 3.0m dp	33	CM		
	Extra-over excavations for excavating in soft rock	27	CM		
E	Return, fill and well ram selected excavated materials around	241	CM		
г	foundations	1/4	014		
F	Load and cart away surplus excavated materials.	164	CM ITEM		
G H	Allow for keeping all excavations free from general water	1	ITEM		
Ħ	Allow for all necessary strutting and planking. Concrete Work:-	1	TTCIVI		
	Mass concrete class 10 -15mm aggregate mix (1:3:6) in:-				
1	50mm Thick blinding under strip foundations	121	SM		
j	Ditto under column bases	109	SM		
	Reinforced Vibrated concrete Class				
	25-20mm aggregate mix (1:2:4) in -				
K	Strip foundations	24	СМ		
L	Column bases	26	CM		
M	Columns	27	CM		
N	Ground beam	18	CM		
	Formwork				
	Sawn formwork to:-	458			
O	Vertical sides of strip foundations.	80	SM		
P	Ditto column bases.	109	SM		
Q	Ditto columns	445	SM		
R	Ditto ground beam	186	SM		
	Reinforcement				
c	High yield square twisted bars to B.S. 4461:	1502	W.C		
S T	D 8 D 10	1503 461	KG. KG.		
U	D 12	5186	KG.		
ν	D 16	140	KG.		
, i	Quarry natural stone bedded and jointed in cement and sand	1,0	Aco.		
	(1:3)mortar : 20 gauge x 25mm hoop iron in every alternate course				
W	200mm Thick substructure walls	432	SM		
	Machine cut natural stone blocks or other equal and approved				
	building blocks: minimum compressive strength 7N/mM2: regular				
	coursed walling of uniform colour : bedded and jointed in cement				
	and sand (1:3) mortar: 20 gauge x 25mm hood iron in every				
Х	alternate course 200mm thick wall	691	SM		
Λ	12mm lime plaster in two coats: steel trowelled finish on walls and	021	5143		
	columns				
Υ	Walls and columns internally	802	SM		
	Prepare and apply three coats PVA matt vinyl emulsion paint : on				
Z	Plastered walls, columns and beams.	849	SM		
	Fair face -				
Αl	Extra over stone walling for wire brushing and key				
	pointing to form recessed horizontal and vertical	691	SM		
	joints on both sides.				
г.	Prepare and apply three coats bituminous paint to	100	0).4		
Bl	Plinth area above ground and ground beam externally	186	SM		
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No.	Description	Unit	Qty	Rate	Amount
Α	Razor Wire Supply and fix Razor Wire at the top of boundary wall, Coil size; 450mm diameter, Blade profile-ripper razor wire, Stretch factor-maximum of 10m per coil and secured to wall with galvanised steel 25x25x4mm square tube bar 600mm long anchored on the wall at 1.5m centers.	310	LM		
В	Precast concrete class 20/20 in:- 450 x 450 x 75mm. Thick coping weathered and throated all round bedded on top of columns with cement and sand (1/4) mortar.	104	NO.		
C	Ditto but 800x 450 x75mm	5	NO		
D	350 x 50mm Thick ditto bedded on top of 200mm, thick walling ditto. Expansion Joint	288	LM		
Е	20mm thick construction joint in flex cell or equall and approved expansion joint and (25x25)mm expedite sealer	SM	10		
F	GATES 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	2	NO		
G	Ditto but 1500x2400mm high pedestrian gates	2	NO		
Н	CHAINLINK FENCE 2.4m high x12.5A gauge chainlink fence, complete with 4mm diameter 5 strands of galvanized plain wire pass through 3.0m high 50x50X3mm cranked SHS posts placed at 3.0m centers, 12 gauge barbed wire on 450mm cranks, including, excavation and erection works, 11316 mix mass concrete surround at 600mm deep.	30	LM		
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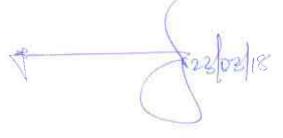
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No.	Description	Unit	Qty	Rate	Amount
	BILL NO. 15: GATE HOUSE & TOILETS				
	AND ATTENDED				'
	Substructures Site Preparation				
	Excavations Excavations				
	General excavations to include excavating in loam, ciav. Black cotton				
	soil, red soil or any soil which does not require ripping or use of				
	compressor tools				
A	Excavate average 200mm deep to remove top soil: deposit heaps where directed on site for landscaping.	M2	12		
D	Excavate trenches for wall foundations commencing from reduced level				
	and not exceeding 1.5 metres deep	M3	16		
С	Extra over excavation for excavating in hardrock all classes.	M3	3		
	Filling				
D	Filling to make up levels selected excavated material placed in 200mm	M3	5		
	thick layers well watered and compacted to 98% MOD				
E	Backfilling around Foundations Backfill around foundation selected excavated material: placed in				
	200mm thick layers well watered and compacted to 98% MDD	M3	4		
	Disposal of excavated materials				
F	Surplus excavated material: remove and deposit in spoil heaps on ate	M3	8		1
	Disposal of water				
G	Deep excavations free from all water by baling, pumping or atherwise	ltem	1		
	Planking and strutting				
Н	Planking and strutting to sides of all excavations: keep excavation free	Item	l		
	from all fallen materials				
I	Imported Hardcore Approved quarry stone hardcore 300mm thick (overall) hand packed				
 	and well compacted in 150mm thick layers	M3	3		
	Murram Blinding				
J	50mm Murram blinding to surface of hardcore	M2	9		
l	Insitu Concrete : Class 15/25mm				
K	50mm Blinding layer under wall foundations	M2	11		
l	Insitu concrete : class 25/20 : vibrated: reinforced Foundations in trenches	МЗ	2		
	High yield square twisted bar reinforcement to BS 4461	1112			
M	D10 bars	kg	59		
	Sawn formwork : to				
N	Ditto - strip foundations	M2	7		
0	Vertical edge of floor bed over 150 but not exceeding 225mm wide	m	36		
	Quarry natural stone bedded and jointed in cement and sand (1:3) mortar: 20 gauge x 25mm hoop iron in every alternate course				
	inortar 120 gauge v 25mm nond from in every anernate course				
Р	200mm thick substructure Walls	M2	27		
	Labour and sundries				
Q	One layer 1000 gauge polythene sheet damp proof membrane; under	M2	9		
	beds; 300mm laps CONCRETE SUPERSTRUCTURE				
	Insitu concrete : Class 25/20mm : vibrated : reinforced				
R	Ring beams	M3	1		
	High vield deformed bar reinforcement to BS 4461				
S	D 12	KG	60		i.
T	D 8	KG	30		
U	Sawn formwork : to Sides and soffits beams	M2	13		
	Sides and sortits ocalits	1417	13		
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No.	Description	Unit	Qty	Rate	Amount
	WALLING				
	Medium chisel dressed natural stone blocks or other equal				
	andannroved building blocks, minimum compressive strength				
	7N/mM2: regular coursed walling of uniform colour : bedded and				
	iointed in cement and sand (1-3) mortar = 20 gauge x 25mm hoon				
	iron in every alternate course				
Α	200mm Walling	M2	40		
	Damp proof courses bituminous felt: bedded in cement mortar				
	(1:4): 300mm laps				
В	Horizontal 200mm wide	Lm	14		
	ROOFING				
	Structural Steel work				
	The following in framed structural steelwork complete with and				
	including all welded and holted connections : delivery to site and				
	erection with and including one shop coat of zinc plumbate primer				
	3No structural steel roof trusses spanning 2200 mm girth hoisting and				
	fixing approximate 3 0 M above ground level				
С	50x 50 x 4 mm thick RHS rafters	LM	12		
D	40 x40 x 3 mm SHS struts and ties	LM	13		
E	50 x 50 x 3 mm SHS tie beam	LM	7		
F	100 x 100 x 6 mm thick base plate welded to truss drilled with 4No				
•	holes for 12 mm diameter bolts	No	6		
G	Supply and fix 150x51x2mm 'Z' - purlins with welded cleats and bolted				
C	to rafters primed	I.M	30		
H	Fabricate steel framework comprising of SHS 40x40x4mm thick to form				
п	vertical facsia cladding, comprising of vertical and horicontal members,				["
	bracings, struts runners all adequatelyand including fixing into position	LM	78	l	
	in to client satisfaction.				
I	Supply and fix BP760 box profile factory pre-painted gauge 28 full				
	length roofing sheets to an approved colour laid with 94mm side laps and	SM	24	l	
	fixed to steel 'Z' purlin (m/s) including self tapping screws/bolts as	V			
	necessary.			l	
J	Ditto but vertical sides of fascia cladding framework and gable sides	SM	25		
K	Ditto but cave covering	SM	9		
L	Supply and fix 28Gx320mm with stiffed ridge caps	LM	23		
	Rainwater Goods				l
M	Supply and fix 14 gauge Mild steel sheet purpose made box water gutter,			l	l
	900mm girth; to sit and fixed on eave cover framework as described (ms)	LM	12		
	and to rafters				l
Ν	Extra over for stopped ends.	N0	2		
О	Ditto 100mm diameter holes in gutter	N0	2		
P	Extra-over down pipe for 900mm girth swaneck including, tightly	NO	2		I
	secured with sandle clips at 750mm cenetres.	NO	2		l
Q	Extra over downpipe for 300m shoe	NO	2	l	l
R	Painting generally.				
	Prepare and apply 2 coats of red oxide primer and apply 2 coats of			l	l
	alluminium finish on all general surfaces of metal	SM	1		
R	Prepare and apply two coats black bituminous paint in rainwater gutters				l
1	internally.	SM	11	l	l
	ELEMENT NO 5: WINDOWS				l
				l	
	Precast concrete units: class 20/20: reinforced as necessary for				1
	handling fair face finished on all exposed faces			l	l
S	250 x 75mm Cill: once weathered and throated bedded in cement	m	4		l
	mortar (1 4)	111	7		
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No.	Description	Unit	Qty	Rate	Amount
	Steel Casement Windows				
	Purpose made standard section steel casement windows of approved				
	manufacture : with polished brass handles, stays and hinges:				
	permanent vents along full length of top edge: fixed with lugs built				
	into concrete or btockwork a pointed externally in mastic : one shop				
	coat primer	5.7			
	Window size 900 x1200mm high 0ne opening casements.	No	2		77
	Ditto size 450 x 600mm high, one top opening casements and one	No	2		
	bottom fixed panels.				
	Ditto size 600 x 1200mm high; one top opening casements and one	No	1		
	bottom fixed panels.				
	5mm thick clear sheet glass; fixed with putty to metal frames	M2	4		
	Prepare, prime and apply two undercoats and one finishing coat		1		
	gloss paint: on metal	3.43			
	Window casements (both sides measured flat overall)	M2	8		7
	ELEMENT NO 6. DOORS				
	Single leaf steel doors 900x2500mm high in two panels 450mm wide				
	consisting of gauge 18 metal sheet welded into 40x40x3mm shutter		3		
	framing, 50x50x4mm door frame with wall anchors; and fixied light				
	panel on top, including all necessary ironmongeries.				
	Prepare and apply 2 coats of red oxide primer and apply 2 coats of matt	SM	14		
	finish paint on steel doors internall and externally				
1	ELEMENT NO 7: FINISHES				
	FLOOR FINISHES				
	Cement and sand (1:3) trowelled screeds : on concrete : to 32mm Floor screed to receive ceramic floor tiles (ms)	M2	7		
	` ′	IVIZ	′		
	300 x 300 x 8mm thick coloured ceramic floor tiles; as selected by the Client: on screeded bed (measured separately) jointed, pointed and	M2	7		
	grouted in matching colour cement mortar)	1712	′		
1	WALL FINISHES				
	Cement and sand (1:3) backing ; finished to receive ceramic wall				
- 1	tiles:				
	12mm thick; to walls	M2	12		
	200 x 300 x 6mm Thick glazed ceramic wall tiles : fixed				
- 1	with approved quality adhesive in accordance with the				
- 1	manufacturers instructions : on and including 12mm thick				
1	cement and sand screed backing : jointed, pointed and grouted				
1	in matching colour coloured cement grout and Plastic corner strips				
	to edges of tiled surfaces				
- 1	12mm Lime plaster in two coats : steel trowelled finish : on				
	concrete or btockwork ; to				
K	Walls	M2	24		
	Prepare and apply three coats 1st grade gloss oil paint, on				
L	Plastered walls	M2	24		
	Extra over walling for : horizontal recessed and flush vertical				
]	ioints as work proceeds : in cement and sand (1:3) mortar				
M	Key pointing in cement sand (4:3) in horizontal joints.	M2	28		
	Cement and sand (1:3) render: wood float finish to				
	Sides of beams	M2	4		
	Plinth	M2	5		
- 1	Prenare and apply three coats first grade external quality paint: to				
P	Rendered surfaces of m beams	M2	4		
	Prepare and apply three coats first grade bituminous paint; to				
	Rendered plinth surfaces	M2	5		
	CEILING FINISHES				
	Gypsumboard ceiling lining				
	12mm Chipboard ceiling lining a fixed to and including alluminium	M2	7		
	gypsum rails brandering at 600mm centres bothways				
S	Extra over for forming 600 x 600mm access door trap and door catch	No	ì		
				I	



No.	Description	Unit	Qty	Rate	Amount
	Wrot camphor; selected and kept clean		20		
A	100x25mm Moulded gypsum cornice plugged and screwed Prepare, prime and apply one undercoat and two finishing coats	m	20		
	gloss paint: to wood				
В	Cornice; not exceeding 100mm girth	m	20		
	Prepare and apply three coats 1st grade plastic emulsion paint: to.				
С	Horizontal soffits gypsum board ceiling soffits	M2	7		
	ELEMENT NO 8: FITTINGS & FIXTURES	1412	,		
	GUARDROOM SITTING AREA AND VANITY TOP				
	Counters comprising: 75mm thick concrete class 20 worktop:				
	BRC A 65 reinforcement: formwork : 200 x 8mm 'Sai' Ceramics				
	tiles finish top and fascia :				
D	Vanity top size 450mm wide x 600mm long 75mm thick	No	1		
E	Ditto sitting platform, size 500x1000mm	N0	1		
F	External Works				
г	200mm Hardcore bed, deposited, spread levelled and compacted to receive sand bed	M2	10		
G	50mm Sand bed : levelled and compacted to receive paving	M2	10		
Н	50 x 600 x 600 mm Precast concrete (class 20) paving slabs a laid on				
	sand bed (measured separately) jointed and pointed in cement mortar	M2	10		
	(1:4) Sanitary Fittings				
	To supply and install the following Sanitary fittings including all the				
	necessary joints to service overflow and waste pipes, jointings and				
	motices, plugs, screws bolts and making good. Sanitary Fittings will				
	be to Client's approval of the relevant samples				
I	Approved Standard white countertop wash hand basin size: 585x430mm				
	on with one center tap hole and a 2 nd RHS tap hole for Basin top				
	mounted under counter soap dispenser. Cobra single lever mixer tap with pop up waste: and plastic bottle trap 32mm dia with seal.	NO	2		
	pop up waste, and plastic bottle trap 32 nm dia with sear				
J	Approved standard WC white wall concealed distern white seat & cover				
	unit to have short siphon internal overflow and wide mouth WC P-trap	NO	2		
	waste outlet				
K L	Stainless steel toilet roll holder with top flap cover Stainless Steel basket soap dish size 200x150mm.	NO NO	2 1		
M	Approved standard hand drier with infrared sensor and DP Switch with				
	wiring	NO	1		
N	Aluminium coat/towel hook complete with screw to wall fixtures and	NO	2	l l	
0	rubber door stopper Approved standard basin mounted push action stainless steel liquid soap				
	dispenser with 0.5 litre under counter soap holder	NO	2		
Р	"Bevelled" Mirror to Client's approval fixed on wall with chrome plated	NO	, ,	1	
	dome headed screws. Mirror size 600 x 800mm high	NO	1		
	Internal Plumbing Water Suddly				
Q	To supply & install PP-R (PN 20) stable tubing (pipes) of various size a necessary and tenderer must allow for jointing, clipping reducers'				
	couolina, bends, reducers, tees, sockets, approved gate valves, flexible	10001			
	connectors floor traps, angle valves etc. necessary for the proper and	ITEM	1		
	satisfactory functioning of the installation when pricing				
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T	Description	Unit	Qty	Rate	Amount		
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