UN	UNYAMA IRRIGATION SCHEME INFRASTRUCTURE AND FACILITIES					
	GRAND SUMMARY					
BILL NO.	DESCRIPTION	AMOUNT (UGX)				
1	PRELIMINARIES AND GENERAL ITEMS	•				
2	DAM AND APPURTENANT	-				
3	MAIN CANAL	-				
4	SECONDARY CANALS	-				
5	TERTIARY CANALS	-				
6	SECONDARY DRAIN	-				
7	TERTIARY DRAIN	-				
8	FLOOD PROTECTION WORKS	-				
9	STEEL WORK/HYDRO MECHANICAL GATES	-				
10	ACCESS AND SCHEME ROADS	-				
11	IRRIGATION INFRASTRUCTURE FACILITIES	-				
12	SCHEME BUILDING AND FACILITIES	-				
	SUM TOTAL	-				
	CONTINGENCY(5%)	-				
	TOTAL	-				

UNYAMA IRRIGATION SCHEME INFRASTRUCTURE AND FACILITIES				
	BILL SUMMARY			
BILL NO.	DESCRIPTION	AMOUNT (UGX)		
1	PRELIMINARIES AND GENERAL ITEMS			
1.1	Contractual requirements	-		
1.2	Specified requirements	-		
1.3	Services for the Engineers staff	-		
1.4	Equipment for the Engineers staff	-		
1.5	Testing materials and temporary works	-		
1.6	Method related charges	-		
1.7	Provisional sum	-		
1.8	Ground investigations	-		
1.9	Environmental and Social Mitigation Activities	-		
1.10	Health and Safety Protection / Mitigation Activities	-		
	Total, Preliminaries and General Items	-		
2	DAM AND APPURTENANT			
2.1	Dam Embankment	-		
2.2	Intake Structure	-		
2.3	Spillway Structure	-		
2.4	Conduit Structure	-		
2.5	Exit Channel	-		
2.6	Eletro Mechanical works	-		
	Total, Dam and Appurtenant structures	-		
3	MAIN CANALS			
3.1	Lined Canal	-		
3.2	Structures and associated works			
3.2.1	Drop Structures	-		
3.2.2	Cross Regulator and Head Regulator Structures	_		
3.2.3	Main Canal Crossing Structures	_		
3.2.4	Invetred Syphon	_		
3.2.5	Drain Aqeduct	-		
	Total, Main Canal	-		
4	SECONDARY CANALS			
4.1	Lined Canal	-		
4.2	Structures and associated works			
4.2.1	Drop structures	-		
4.2.2	Cross and Head regulator structures	-		
4.2.3	Secondary Canal Crossing Structures	-		
	Total, Secondary Canals	-		
5	TERTIARY CANALS			
5.1	Land levelling			
5.2	Unlined Canal	-		
5.3	Structures and Associated works			
5.3.1	Turnout structures	-		
5.3.2	Drop structures	-		
	Total, Tertiary Canals	-		
6	SECONDARY DRAIN			
6.1	Unlined drain	-		
6.2	Structures and associated works			

UNYAMA IRRIGATION SCHEME INFRASTRUCTURE AND FACILITIES				
BILL SUMMARY				
6.2.1	Drop structures	-		
6.2.2	Pipe Culvert Structures	-		
	Total, Secondary Drain	-		

Final BoQ UNY	UNYAMA IRRIGATION SCHEME INFRASTRUCTURE AND FACILITIES				
	BILL SUMMARY				
7	TERTIARY DRAIN				
7.1	Unlined drain	-			
7.2	Structures and Associated works				
7.2.1	Outfall structures	-			
	Total, Tertiary Drain	-			
	FLOOD PROTECTION WORKS				
8.1	Flood Protection Dyke	-			
8.2	Interceptor Drain	-			
8.3	Structures and Associated works				
8.3.1	Drop structures	-			
8.4	Escape Canal	-			
8.5	River Dredging	-			
	Total, Flood Protection Works	-			
	STEEL WORK/HYDRO MECHANICAL GATES				
9.1	Dam Outlet Gates	-			
9.2	Main Canal Gates	-			
9.3	Secondary-(1-3) Gates	-			
9.4	Secondary-(4-6) Gates	_			
9.5	Secondary-(7-9) Gates	_			
9.6	Secondary-(10-12) Gates	-			
9.7	Secondary-(13-16) Gates	-			
9.8	Secondary-(17-20) Gates	_			
9.9	Secondary-(21-24) Gates	-			
9.10	Secondary-(25-27) Gates	-			
9.11	Secondary-(28-30) Gates	-			
9.12	Secondary-(31-32) Gates	-			
9.13	Field Turnout Gates	=			
	Total, Steel Work/Hydro Mechanical Gates	-			
10	ACCESS AND SCHEME ROADS				
10.1	Access Road	-			
10.2	Main and Secondary Canal Road	-			
10.3	Pipe Culvert Structures	-			
	Total, Access and Scheme Roads	-			
11	IRRIGATION INFRASTRUCTURE FACILITIES				
11.1	Livestock Watering (6 no.)	-			
11.2	Sanitation Facility (25 no.)	=			
11.3	Farm Shed (30 no.)	-			
11.4	Guard House (3 n <u>o</u> .)	-			
11.5	Scheme equipment	-			
11.6	Boundary and Irrigation Mark Stones, Staff Gauge	-			
	Total, Irrigation Infrastructure Facilities	-			
12	SCHEME BUILDING AND FACILITIES				
12.1	Office Block	-			
12.2	Residential Building	-			
12.3	Storage Building	-			
12.4	Compound Work	-			
	Water Cumby and Conitary				
12.5 12.6	Water Supply and Sanitary Electrical Work	-			

UNYAMA IRRIGATION SCHEME INFRASTRUCTURE AND FACILITIES					
	BILL SUMMARY				
12.7	Rice Drying Platform (2 no.)	-			
	Total, Scheme Building and Facilities	-			
	SUM TOTAL	-			
	CONTINGENCY(5%)	-			
	TOTAL	-			

BILL NO. 1:	PRELIMINARIES & GENERAL ITEMS			BOQ	
Bill No.	DESCRIPTION	UNIT	Q'TY	Unit Rate (UGX)	AMOUNT (UGX)
1.1	CONTRACTUAL REQUIREMENTS				
1.1.1	Performance security clause	sum	1.00		
1.1.2	Advance payment guarantee	sum	1.00		
1.1.3		sum	1.00		
1.1.4	Third party insurance	sum	1.00		
1.1.5		sum	1.00		
	ed to summary page				-
	SPECIFIED REQUIREMENTS				
	Site Offices and Housing				
1.2.1	Provision of rented office accommodation for the				
	Engineer's staff	month	24.00		
1.2.2	Maintenance of offices for the Engineer's staff	month	24.00		
1.2.3					
1.2.0	staff (3No. Units)	month	24.00		
1.2.4	Maintenance of housing accommodation for the				
1.2.1	Engineer's staff (3No. Units)	month	24.00		
otal carrie	ed to summary page				-
	SERVICES FOR THE ENGINEERS STAFF				
1.3.1	Services for the Engineer's Staff; Transport Vehicles;				
1.0.1	Station Wagon Transport Vehicle - standing costs	No.	No. 1.00		
1.3.2	Services for the Engineer's Staff; Transport Vehicles;				
1.0.2	Pick-up transport vehicle - standing costs	No.	3.00		
1.3.3					
1.0.0	Station Wagon Transport Vehicle - running costs	km	159,000		
1.3.4	Services for the Engineer's Staff; Transport Vehicles;				
1.0.1	Pick-up transport vehicle - running costs	km	318,000		
	Communication				
1.3.5					
1.0.0	email (wireless or leased line) system for the	sum	1.00		
	Engineer's office	Odili	1.00		
1.3.6	Maintenance of communication system and				
1.0.0	dedicated email (wireless or leased line) system for	month	24.00		
	the Engineer's office	111011111	24.00		
otal carrie	ed to summary page				_
	EQUIPMENT FOR USE BY THE ENGINEERS STAFF				
1.4.1	Provision of office furniture & equipment for the				
1.7.1	Engineer's staff. Spec	sum	1.00		
1.4.2	Provision of personal office computers for use	Nr.	3.00		
1.4.3		INI.	5.00		
1.4.5	specification	Nr.	3.00		
1.4.4	Provision of 20.1 mega pixils digital camera with				
1.4.4	32GB memory card of approved make for the entire	Nr.	3.00		
1.4.5	, ,,				
1.4.5	furniture & equipment	month	24.00		
	Attendance upon the Engineer's staff				
1.4.6		month	24.00		
1.4.6	Technician/Draftsman	month month	12.00		
1.4.7			24.00		
	Secretary ed to summary page	month	∠4.00		

	T				
1.5	TESTING MATERIALS AND WORKS				
1.5.1	Provision of a site laboratory room including all				
	furniture and apparatus/equipment with a full time				
	laboratory Technician for undertaking the following				
	day to day on-site quality control tests for the whole				
	project excution period:				
	(a) In-situ density using the sand replacement				
	method done to BS 1377:1975 of the compacted				
	dam fill material per layer during construction				
	(b) Moisture Content; done to specification in				
	contract document (c) Permeability tests				
	done to BS 5930, 1981, use of constant head				
	permeameter for fine and coarse grained soils				
	(d) Compaction Standard compaction tests by				
	proctor - Use of a 2.5kg				
	rammer to BS 1377				
	- Use of a 4.5kg rammer to BS 1377				
	(e) Testing of Clay and Gravel (murram) material	Sum	1.00		-
	from different Borrow Pits prior to approval for use by				
	the Engineer performing the following tests:				
	(i) Atterbergs Limits				
	(ii) Sieve Analysis				
	(iii) Natural Moisture Content				
	, ,				
	(iv) Hydrometer Analysis for fine materials				
	(v) Compaction [standard proctor] (MDD and OMC)				
	(vi) Un-drained Shear Strength test at MDD (vii)				
	Permeability test at MDD				
	(viii) Direct Shear test at MDD (ix) CBR (x)				
	Plastic and Liquid Limit				
	(f) Provision for testing of concrete works before,				
	during and after construction in accordance with the				
	specification (i)				
	Comprehensive Strength tests				
	Temporary Works				
1.5.12	1	Nr	5.00		_
	boards to the Engineer's satisfaction, spec				
1.5.13		sum	1.00		-
1.5.14					
	areas to ensure the works are completed as	sum	1.00		_
	specified. Rate to include removal of all temporary	oum	1.00		
	facilities after construction				
1.5.15	<u> </u>				
	sites and work areas to original site in compliance	sum	1.00		-
	with Social Requirements and Environmental				
1.5.16		km	20.00		_
	borrow sites and all sites and work areas	KIII	20.00		
	ed to summary page				-
1.6	METHOD RELATED CHARGES				
1.6.1		sum	1.00		-
1.6.2		month	24.00	8,500,000	204,000,000
	supervision expenses	111011111	21.00	0,000,000	201,000,000
1.6.3	Production of As-built drawings as specified (4 sets)	L.sum	1.00		-
1.6.4	Allow for site handover	P.sum	1.00	21,000,000	21,000,000
1.6.5		P.sum	1.00	30,000,000	30,000,000
1.6.6	Ÿ .				
	liability period	Month	6.00	8,500,000	51,000,000
1			<u>ı</u>		

407	Control to the bonding of the control of the contro				
1.6.7	o o .	%	10.00		-
Total carrie	under 1.6.2, 1.6.4, 1.6.5& 1.6.6 above. ed to summary page				
1.7	PROVISIONAL SUMS				<u>-</u>
1.7.1	Allow for Geotechnical investigations to be carried				
	out during construction to confirm design parameters	P.sum	1.00	100,000,000	100,000,000
	and soil properties for the Head work			, ,	, ,
1.7.2	Allow for topographical surveys to be carried out	D	4.00	70,000,000	70 000 000
	durning construction	P.sum	1.00	70,000,000	70,000,000
1.7.3	Allow for hands-on training of Employer's technical	P.sum	1.00	15 000 000	15,000,000
	staff during the construction period	P.Sum	1.00	15,000,000	15,000,000
1.7.4	Contractor's handling charges on all provisional	%	10.00		_
	sums under 1.7.1, 1.7.2 & 1.7.3 above	70	10.00		
	d to summary page				
1.8	GROUND INVESTIGATIONS				
1.8.1	Professional Services	110	000.00		
1.8.11	Technician Engineer	HR	200.00		-
1.8.12	Engineer or geologist - Principal or Consultant Visits to the site	HR HR	200.00		-
1.8.13 1.8.14	Overnight stays in connection to visits to the site	HR	240.00 240.00		-
	ed to summary page	ПК	240.00		
1.9	Environmental and Social Mitigation Activities				<u>-</u>
1.9.1	Develop and operationalize a strict recruitment plan				
1.0.1	and code of conduct for employees and workers;				
	Develop a communication and sensitization plan for				
	employees, workers and general public about	sum			
	HIV/AIDS, accident prevention, child abuse and				
	gender-based violence including the use of IEC				
1.9.2	Provide free HIV/AIDS testing, counselling and	CUM			
	condom distribution on a monthly basis.	sum			
1.9.3	Develop and implement a vegetation cover and				
	drainage management plan for all sites where	sum			
	excavation and landfill will take place to prevent soil	Odin			
	erosion and degradation.				
1.9.4	Installation of silencers / sound attenuation canopies				
	for equipment that emit excessive noise. Installation				
	and maintenance of noise measuring equipment to	sum			
	measure the level of noise at specific sites during				
	noise generating activities. Ensure availability of earmuffs at the site for worker and visitors.				
1.9.5					
1.5.5	vehicle pathways and limit vehicle speeds. Provide				
	tarpaulin covers for vehicles while hauling dust	sum			
	generating materials. Provide dust masks for all				
	workers and visitors, as required during the project				
Total carrie	ed to summary page				-
	Health and Safety Protection / Mitigation Activities				
1.10.1	Store and dispose off hazardous wastes and raw				
	material (e.g.fuel or chemicals) - storage of	sum			
	hydrocarbons (disposal charge per quarter)				
1.10.2	Confine access to restricted work sites (including	sum			
	hoarding, hiring of security guards)	Juili			
1.10.3	• • • • • • • • • • • • • • • • • • • •	sum			
4 40 1	Traffic Management Plan (TMP)	2 2			
1.10.4	Preparation, approval and implementation of Fire	sum			
1 10 5	Management Plan	01100			
1.10.5	Installation of a fully equiped first aid room	sum			

1.10.6	Hire of a trained Nurse and Social Development Expert for the duration of the project	sum		
1.10.7	Signing of an MOU with a referral hospital to provide ambulance services and handling severe cases /emergencies	sum		
1.10.8	Purchase and maintenance of drinking water dispensers	sum		
1.10.9	Installation and maintenance of hand washing facilities with soap and water at all project sites	sum		
1.10.10	Provision of appropriate and safe transportation for all workers to, from and within work sites. Transportation vehicle should not be an open top vehicle. There should be provision for sitting, or supported standing, and protection from whether and environment elements, i.e. sunshine, rain and dust	sum		
1.10.11	Provision to undertake safe guards complaince in accordance with section 2.7 safety precautions and section 3 Environmental protection and waste disposal under the technical specifications	Sum	1.00	-
Total carrie	d to summary page			-

ILL NO. 2	DAM AND APPURTENANT STRUCTURE	BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX
2.1	EMBANKMENT DAM				
	Earth works				
2.1.1	Clearing and stripping of along the Dam axis to				
	formation level on completion and disposal of	m^2	65,633.60		
	surplus in spoil tips including placing up to 500m				
2.1.2	Excavation of loose soild and alluvial material for	2			
	embankment foundation to max depth of 27m	m ³	99,610.92		
2.1.3	Excavation of over hanging rock and weathered rock				
	for embankment foundation to max depth of 10m	m^3	39,767.00		
		m	39,767.00		
2.1.4	Executation for autoff transh to any depth	3	25 009 00		
2.1.4	Excavation for cutoff trench to any depth	m ³	25,098.00		
2.1.5	Excavation in rock for cutoff trench to any depth	m ³	16,732.00		
	Clean up rock surface in cutoff trench debth	m ²	33,940.50		
2.1.7	Cement slurry treatment of rock surface in cutoff	m ³	2,715.24		
2.1.8 2.1.9	Dewatering of all excavation area Compacted clay core and trench (Zone 1) (rate	L.sum	1.00		
2.1.9	includes quarry development, hauling, moisture	m^3	05 655 00		
	application and compaction)	111	95,655.00		
2.1.10					
2.1.10	quarry development, hauling, moisture application	m³	284,965.00		
	and compaction)		201,000.00		
2.1.11	Compacted toe rock fill and Horizontal Draimage				
2.1.11	Blanket (Zone 5) (rate includes blasting, hauling,	m^3	33,740.00		
	spreading and compacting)		,		
2.1.12	Compacted backfill with free draining granular				
	material in the downstream of part of dam below				
	ground surface (rate includes quarry development,	m ³	11,525.00		
	hauling, moisture application and compaction)				
2.1.13	Fine Filter, Zone 2A	m ³	41,703.98		
2.1.14	Coarse Filter, Zone 2B	m ³	27,673.88		
2.1.15	·		,		
_	Compacted riprap (Zone 6) (rate includes blasting,	m^3	53,664.48		
	hauling, spreading and compacting)				
2.1.16	Shape and compact dam crest	m ³	4,712.76		
2.1.17	Crushed gravel 10-30mm diameter	m^3	2,000.70		
2.1.18	· ·	m^3	2,712.06		
2.1.19	11, 7, 7,	m ³	277.88		
	footing (C-20)	111	277.00		
2.1.20					
	of UNRA Standard boundary mark stones, engraved	No.	400.00		
	with project name on both side of the road as				
2.1.21	directed by the Engineer	Loum	1.00		<u> </u>
2.1.21	Grouting and Dental treatment works 4m wide gravel access track downstream of the toe	L.sum	1.00		
2.1.22	of the dam	m	553.50		
2.1.23		m	18.00		
2.1.24		m	487.69		İ
2.1.25		m	588.09		
	ed to summary page				-
2.2	DAM OUTLET ARRANGEMENT				
2.2.1	APPROACH CHANNEL				
	Earth Work				

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
		C 1			7
	Clearing and stripping of along the formation level	0			
2.2.1.1		m ²	1,733.75		-
	including placing up to 500m				
	Excavate to Inlet Channel to the design level on				
2.2.1.2					-
	including placing up to 500m away	2			
	a) Common excavation in open cut to any depth	m ³	4,708.50		-
	b) Rock excavation in open cut to any depth	m ³	3,139.00		-
	Structural works				-
2.2.1.3		m ³	910.53		-
2.2.2	INTAKE TOWER				-
	Earth Work				-
	Excavate to Intake Tower foundation floor to				
2.2.2.1		m^3	581.10		-
	surplus in spoil tips including placing up to 500m				
0000	Backfill and compaction of selected material at pier	3	000 50		
2.2.2.2	and below dumped rock riprap area on completion	m ³	260.53		-
	Concrete Work				_
2.2.2.3	Form Work provide cut and fix in position				_
2.2.2.4	Oridinary formwork Type "F2",	m ²	434.09		_
2.2.2.4		m ²	651.13		-
					-
2.2.2.6		Kg	47,997.84		-
2.2.2.7	Blinding concrete: Class C20 (2500mm deep)	m ³	101.20		-
	Concrete Class C-40 to bed Floor, trash rack				
2.2.2.8	support, left and right side walls, bulk head gate	m^3	611.44		-
	maintenance and dock chamber, Intake structure				
	operating room and gate walls				
2.2.2.9	Second Stage Concrete C-30 to high pressure	m^3	14.11		-
	emergency gate and bulk head gate side walls				
	Steel Work				
2.2.2.10	Support columns and beams for overhead gantry crane, Emergency Gate Operating Gear, including	LS	1.00		
2.2.2.10	associated connections to Intake Tower concrete.	LS	1.00		_
	Access Stairs to tower				
2.2.2.11	Satinless ladder	m	8.00		_
2.2.2.11	Safety Hand Rail to Tower and Varandah	111	0.00		
	Circular tube for stairs, nominal size 75mm and				
2.2.2.12	thickness 4mm	m	29.00		-
	Miscellaneous				
2.2.2.13		m	950.00		_
	Two coats of Rituminous paint to surface of				
2.2.2.14	contraction Joints	m^2	20.53		-
2.2.2.15		m	10.00		-
2.2.2.16		LS	1.00		-
	Foot Bridge				
	Earth Work				
2.2.2.17	Clearing and Stripping the construction area	m ²	95.88		-
::_:	Excavate to abutment and intermediate piers footing	111	22.30		
2.2.2.18	·	m^3	26.45		_
	surplus in spoil tips including placing up to 500m	'''	20.10		
	Backfill and compaction of selected material at pier				
2.2.2.19	and below dumped rock riprap area on completion	m^3	19.84		-
	Concrete Work				
	Form Work provide cut and fix in position				
2 2 2 22	Oridinary formwork Type "F2", as detailed in the	2	000.40		
2.2.2.20	specification, to Class-30 Concrete pier, girder, slab	m ²	230.12]
2 2 2 24	and at second stage concrete floor bed	V~	10.064.00		
2.2.2.21	Mild steel reinforcement bar	Kg	18,064.03		-

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
2.2.2.22	Lean concrete 100mm thick (C-15)	m^3	194.38		-
2.2.2.23	Concrete Class C-30 to abutment, pier, and slab	m^3	119.03		-
2.2.2.24	Steel Work Supply and install galvanized mild steel handrail to footbridge including galvanized holding down bolts, base plate and grouting.	m	27.00		-
2.2.2.25	Pile Foundation	LS	1.00		_
2.2.2.20	1 no i oundation		1.00		_
2.3	SPILLWAY				
2.3.1	APPROACH CHANNEL				
	Earth Work	2	0.400.0=		
2.3.1.1	Clearing and Stripping the construction area	m ²	6,482.27		-
2.3.1.2		m ³	4,668.54		-
2.3.1.3	of 5m	m ³	7,161.00		-
2.3.1.4	Hard rock formation excavation in open cut to max depth of 5m	m³	5,173.82		-
2.3.1.5	Free drain backfill	m ³	3,695.59		-
2.3.1.6		m ³	1,379.13		-
2.3.1.7	to 500m away	m ³	10,230.00		-
2.3.1.8	Concrete work Plane Vertical: Formwork: Class F3	m ²	1 121 10		
2.3.1.8			1,134.48		-
2.3.1.9		Kg m³	541.88		
2.3.1.10	100mm lean concreate bedding 100mm (C-10)	m ²	79.69		-
2.3.1.11	Miscellaneous	m	79.09		-
2.3.1.12	Supply and fix 230 mm PVC hydrofoil water-stops	m	129.09		-
2.3.1.13	contraction Joints	m ²	187.50		-
2.3.2	OGEE CONTROL STRUCTURE				
	Earth Work	2			
2.3.2.1	Clearing and Stripping the construction area	m ²	78.66		-
2.3.2.2	Residual soil excavation to max depth of 5m	m ³	209.67		-
2.3.2.3	of 5m	m ³	183.46		-
2.3.2.4	depth of 5m	m ³	131.04		-
2.3.2.5		m ³	43.50		-
2.3.2.6		m ³	57.20		-
2.3.2.7	to 500m away	m ³	174.73		-
2000	Concrete work	2	F= 1.0=		
2.3.2.8		m ²	574.03		-
2.3.2.9		Kg	21,477.60		-
2.3.2.10		m ³	273.60		-
2.3.2.11	Cyclopean concrete at ogee/crest and glacious (60% coble stone and 40% concrete C-30) Concrete Finishing	m ³	65.63		-
2.3.2.12		m ²	117.13		-
	Miscellaneous				-
2.3.2.13	Semi circular concrete collecter drain pipe Ø500	m	20.00		-
2.3.2.14		m	40.00		-
2.3.2.15	Two coats of Bituminous paint to surface of contraction Joints	m ²	60.00		-
2.3.3	Chute and Transition				
	Earth Work				-

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
2.3.3.1	Clearing and Stripping the construction area	m ²	10,093.75		-
2.3.3.2	Residual soil excavation to max depth of 5m	m ³	27,107.22		-
2.3.3.3	Soft formation excavation in open cut, to may depth	m ³	23,718.82		-
2.3.3.4	Hard rock formation excavation in open cut to max	m³	13,913.89		-
2.3.3.5	Free drain backfill	m ³	6,221.48		_
2.3.3.6	Back filling using selected material	m ³	4,851.17		-
2.3.3.7	Masonry darinage collector canal	m ³	1,450.00		-
2.3.3.8	Disposal of surplus in spoil tips including placing up	m ³	67,768.05		-
	Concrete				-
2.3.3.9	Mass concrete: Class C-25	m^3	9,992.45		-
2.3.3.10	Lean concrete Class C-10	m^2	681.75		-
	Concrete Finishing				
2.3.3.11	Surface finish: Class U3 to spillway chute	m^2	10,531.68		-
2.3.3.12	Plane Vertical: Formwork: Class F3	m^2	1,959.70		-
2.3.3.13	Reinforcement	Kg	·		
	Miscellaneous				
2.3.3.14		m	852.19		-
2.3.3.15	Two coats of Bituminous paint to surface of	m ²	852.19		-
2.3.4	Basin				
	Earth Work				
2.3.4.1	Clearing and Stripping the construction area	m ²	184.92		-
2.3.4.2	Common excavation in open cut to any depth	m^3	94,407.39		-
2.3.4.3	Rock excavation in open cut in to any depth	m^3	82,606.47		-
2.3.4.4	masonry darinage collector canal	m^3	26,224.28		-
2.3.4.5	Free draining backfill to walls	m^3	62.50		-
2.3.4.6	Back filling using selected material	m^3	55.00		-
	Concrete				
2.3.4.7	Reinforced concrete: Class C-30	m^3	361.93		-
2.3.4.8	Lean concrete C-15 per 100mm thickness	m^2	36.25		-
	Formwork				
2.3.4.9	Plane Vertical: Formwork: Class F3	m^2	266.00		-
2.3.4.10	Reinforcement	Kg	20,881.00		-
	Miscellaneous				
2.3.4.11	Supply and fix 230 mm PVC hydrofoil water-stops	m	15.00		-
2.3.4.12	contraction Joints	m ²	15.00		-
2.3.4.13	250 mm uPVC slotted longitudinal collector drain	m	50.00		-
2.3.5	Exit channel	_			
	Earth Work	2			
2.3.5.1	Clearing and Stripping the construction area	m ²	2,187.19		
2.3.5.2	Common excavation in open cut to any depth	m ³	3,268.12		-
2.3.5.3	nauling, spreading and compacting)	m ³	750.75		-
	Drainage collector pipe				
2.3.5.4	Drainage juction box C-20	m ³	69.00		-
Total sami	150mm drainage collector pipe	m	929.65		-
	ed to summary page				-
2.3.6	CONDUIT Earth Work				
	Excavate to Inlet Channel to the design level on	1			
	completion and disposal of surplus in spoil tips				
	including placing up to 500m away				
2.3.6.1	Common excavation in open cut to any depth	m ³	1,738.34		-
2.3.6.2	Rock excavation in open cut to any depth	m ³	1,043.01		-

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)			
2.3.6.3	Compacted back fill with selected material	m^3	3,939.61		-			
	Concrete Work							
2.3.6.4	Concrete Class C-30 to floor and ceiling for outlet entrance and encase outlet steel pipe	m ³	219.38		-			
2.3.6.5	Surface finish: Class U3	m^2	494.00		-			
2.3.6.6	Formwork for curved section	m ²	156.00		-			
2.3.6.7	Mild steel reinforcement to structure	Kg	17,270.00		-			
	Steel work							
2.3.6.8	Conduit concrete pipe internal steel lining withØ	m^2	585.00		-			
Total carrie	Total carried to summary page							

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
2.3.7	TERMINAL STRUCTURES				
	Earth Work				
	Excavate to Inlet Channel to the design level on				
	completion and disposal of surplus in spoil tips				
	including placing up to 500m away				
2.3.7.1	Common excavation in open cut to any depth	m^3	1,218.71		-
2.3.7.2	Rock excavation in open cut to any depth	m^3	812.48		-
2.3.7.3	Compacted back fill with selected material	m^3	531.88		-
	Concrete Work				
2.3.7.4	Concrete Class C-30 to floor and ceiling for outlet entrance and encase outlet steel pipe	m^3	628.19		-
2.3.7.5	Formwork	m^2	714.39		-
2.3.7.6	Mild steel reinforcement to structure	Kg	49,312.72		-
	Steel work				
2.3.7.7	Supply and install galvanized mild steel handrail to opration platform including galvanized holding down bolts, base plate and grouting.	m^2	19.32		-
	Exit channel				-
2.3.7.8	Clearing and Stripping the construction area	m ²	3,398.73		-
2.3.7.9	Common excavation in open cut to any depth	m ³	3,979.05		-
2.3.7.10	Compacted rockfill riprap (rate includes blasting	m³	1,390.77		-
Total carrie	d to summary page		,		-
	Submerged wheel gate (WxH)m & Embedded part				
2.3.8.1	Net opening 1.5mx1.5m and designed head 8.5m, complete with operating mechanism and Hoisting seat (Main Service gate)	Nr	1.00		-
2.3.8.2	Net opening 1.5mx1.5m and designed head 8.5m, complete with operating mechanism and Hoisting seat(For Emergency gate)	Nr	1.00		-
2.3.8.3	Net opening 1.5mx1.5m and Manufacturing height 9.9m, complete with 10mm thickness steel plate (Gate frame for Service & Emergency)	Nr	2.00		-
2.3.8.4	Motor and manual screw hoist with 100KN capacity for service gate	Nr	1.00		-
2.3.8.5	Movable rope winch (over crane) with 50KN capacity for Installation and maintenance & emergency gate	Nr	1.00		-
	Track Rack & Embedded part				-
2.3.8.6	Fixed trash rack with Net opening (1.6m x 2.5m)	Nr	1.00		-
2.3.8.7	Embedded part including support beams	Nr	1.00		-
2.3.8.8	Balance covered gate with dia. 0.3m (By-pass type)	Nr	1.00		-
Total carrie	d to summary page				-

BILL NO. 3 MAIN CANAL		BOQ				
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)	
3.1	LINED MAIN CANALS about 14.8 Km					
	Earth works					
3.1.1	Clearing and stripping of along the main canal to formation level on completion and disposal of surplus in spoil tips including placing up to 500m	m ²	161,004.70			
3.1.2	Excavate of ordinary soil to main canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m^3	148,573.86			
3.1.3	Provide and transport, spread, shape, water and compact selected material in layers not exceeding 200mm thickness to atleast 98% MOD AASHTO for main canal earth bunds to achieve design/formation levels	m ³	27,527.85			
3.1.4	Extra over all excavation and earthworks for breaking up rock at any point (0-2m depth)	m^3	8,428.86			
	Canal lining					
3.1.5	Provide all materials and construct canal base and side walls in concrete C25 75mm thick as per the drawings, including A142 BRC, blinding and steel formwork for reuse as required.	m ³	8,902.76			
3.1.6	5mm thick 1:3 cement sand plaster to excavated canal surfaces	m^2	118,703.49			
3.1.7	Provide vertical & horizontal joints in floor slab with waterstop, joint filler, sealing strip etc complete, as directed by the Engineer	m ²	229.01			
	FENCING					
3.1.18	Concrete post and wire fence including chainlink, mesh, intermediate, corner and bracing posts in accordance with the drawings.	m	1,000.00			

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
3.2	STRUCTURES AND ASSOCIATED WORKS				
3.2.1	Drop Structures 3No.				
	Earth work				
3.2.1.1	formation level on completion and disposal of surplus in spoil tips including placing up to 300m	m^2	305.04		-
3.2.1.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	766.14		-
3.2.1.3	borrow pits and transported to working space compacted to satisfaction of the Engineer	m ³	341.29		-
3.2.1.4	Provide and fill hard core base 300mm as directed by the Engineer	m ³	119.45		-
3.2.1.5	Provide and fill well compacted and blinded with mixed sand and gravel under masonry floor to approach channel side and floor and structure floor	m ³	32.23		-
	Structural work				
3.2.1.6	stone, in sand mortar 1:3	m ³	167.34		-
3.2.1.7	20mm thick 1:3 cement sand plaster to stone masonary drop structure	m ²	83.87		-
3.2.1.8					
3.2.1.9	, , ,	m ³	1.07		-
3.2.1.10		m ³	2.96		-
	ed to summary page		ı		-
3.2.2	Cross Regulator and Head Regulator Structures				
	Earth work				
3.2.2.1	Clearing and stripping of the structures area to formation level on completion and disposal of surplus in spoil tips including placing up to 300m	m^2	2,082.08		-
3.2.2.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m^3	2,123.62		-
3.2.2.3	Fill with Selected material obtained from excavated borrow pits and transported to working space compacted to satisfaction of the Engineer	m ³	266.46		-
3.2.2.4	Provide and fill hard core base 300mm as directed by the Engineer	m^3	173.20		-
	Structural works				-
3.2.2.5	stone, in sand mortar 1:3	m ³	773.57		-
3.2.2.6	Providing and Placing in position High Yield Strength ribbed reinforcement bars including cutting, bending, binding and welding joints where necessary, hooking etc. complete as per drawing	Kg	2,934.63		-
3.2.2.7		m^2	630.11		-
3.2.2.8	To provide cut and fix in position smooth finish form work	m ²	323.00		-
3.2.2.9	specified in the Drawing	m ²	95.40		-
3.2.2.10	Concrete class C-25 to gate top slab and post	m^3	42.51		-

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
3.2.2.11	Precast concrete pipe diameter and thickness as mentioned in the drawing				-
	Diameter 600 mm	m	120.00		-
	Diameter 750 mm	m	75.00		-
	Diameter 1200 mm	m	60.00		-
Total carrie	ed to summary page		-		-
3.2.3	Main Canal Crossing Structures (2 NO.)				
	Earth work				
3.2.3.1	Clearing and stripping of the structures area to formation level on completion and disposal of surplus in spoil tips including placing up to 300m	m^2	242.00		-
3.2.3.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	158.40		-
3.2.3.3	Fill with Selected material obtained from excavated borrow pits and transported to working space compacted to satisfaction of the Engineer	m ³	63.36		-
3.2.3.4	Provide and fill hard core base 150 mm as directed by the Engineer	m ³	15.84		-
3.2.3.5					-
3.2.3.6	To provide cut and fix in position smooth finish form work	m^2	850.56		-
3.2.3.7	Lean concrete class C-15, 50mm thick blinding	m^3	105.60		-
3.2.3.8	Provide reinforced concrete class C25	m ³	258.77		-
3.2.3.9	Providing and Placing in position High Yield Strength ribbed reinforcement bars including cutting, bending, binding and welding joints where necessary, hooking etc. complete as per drawing	Kg	18,780.07		-
Total carrie	ed to summary page				-
3.2.4	Inverted Syphon				
	Earth work				
3.2.4.1	Clearing and stripping of the structures area to formation level on completion and disposal of surplus in spoil tips including placing up to 300m	m^2	420.00		-
3.2.4.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	2,152.20		-
3.2.4.3	Fill with Selected material obtained from excavated borrow pits and transported to working space compacted to satisfaction of the Engineer	m ³	645.66		-
3.2.4.4	Provide and fill hard core base 300mm as directed by the Engineer	m ³	102.30		-
	Structural works				-
3.2.4.5	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m^3	22.36		-
3.2.4.6		m^3	50.94		-
3.2.4.7	Concrete class C-25 to the Chamber, Operating Slab, Collar and thrust block	m ³	33.62		-
3.2.4.8	specified in the Drawing	m ³	11.05		-
3.2.4.9	To provide cut and fix in position smooth finish form work	m ²	1,159.44		-

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
3.2.4.10	Providing and Placing in position High Yield Strength ribbed reinforcement bars including cutting, bending, binding and welding joints where necessary, hooking etc. complete as per drawing	Kg	5,688.50		-
3.2.4.11	Primary bedding of fine sand surround the Pipe as specified by the Engineer	m^3	178.34		-
3.2.4.12	as specified by the Engineer	m^3	106.32		-
3.2.4.13	the satisfaction of the Engineer	m	34.00		-
3.2.4.14	Supply and install galvanized mild steel handrail to footbridge including galvanized holding down bolts, base plate and grouting as specified in the drawing	m	20.00		-
	d to summary page				-
3.2.5	Drain Aqeduct				
	Earth work				
3.2.5.1	Clearing and stripping of the structures area to formation level on completion and disposal of surplus in spoil tips including placing up to 300m	m^2	8,710.00		-
3.2.5.2		m ³	13,361.14		-
3.2.5.3		m³	4,111.12		-
	Structural works				-
3.2.5.4	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m^3	705.31		-
3.2.5.5	Lean concrete class C-10, 50mm thick blinding as specified in the Drawing	m ³	177.55		-
3.2.4.7	Concrete class C-25 to the box culvert, Collar and thrust block	m^3	971.04		-
3.2.5.6	Providing and Placing in position High Yield Strength ribbed reinforcement bars including cutting, bending, binding and welding joints where necessary, hooking etc. complete as per drawing	Kg	44,566.84		-
3.2.5.7	20mm thick 1:3 cement sand plaster to stone	m^2	2,112.00		-
3.2.5.8	To provide cut and fix in position smooth finish form work	m ²	1,602.22		-
Total carrie	ed to summary page				-

BILL NO. 4 SECONDARY CANALS				BOQ	
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
4.1	LINED SECONDARY CANALS about 24 km				
	Earth Work				
4.1.1	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m^2	172,030.18		
4.1.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	69,430.55		
4.1.3		m ³	34,891.83		
4.1.4	Extra over all excavation and earthworks for breaking up rock at any point (0-2m depth)	m ³	2,565.83		
	Canal Lining				
4.1.5	Provide all materials and construct canal base and side walls in concrete C25 75mm thick as per the drawings, including A142 BRC, blinding and steel formwork for reuse as required.	m ³	8,673.74		
4.1.6	5mm thick 1:3 cement sand plaster to excavated canal surfaces	m ²	115,649.92		
4.1.7	Provide vertical & horizontal joints in floor slab with waterstop, joint filler, sealing strip etc complete, as directed by the Engineer	m ²	226.74		

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
4.2	STRUCTURES AND ASSOCIATED WORKS				
4.2.1	Drop structures				
	Earth work				
4.2.1.1	completion and disposal of surplus in spoil as	m ²	24,168.71		
4.2.1.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	89,610.27		
4.2.1.3	Fill with selected material obtained from excavated borrow pits and transported soil to masonry wall and floor foundation working space compacted to satisfaction of the Engineer	m ³	29,210.79		
4.2.1.4		m^3	934.75		
4.2.1.5	Provide and fill well compacted and blinded sand and gravel mix under masonry floor to approach channel side and floor and structure floor	m ³	1,439.17		
	Structural work				
4.2.1.6	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m ³	20,234.71		
4.2.1.7	masonary drop structure	m ²	16,014.77		
	Mass concrete class C-25 to				
4.2.1.8	Masonry coping	m^3	76.05		
4.2.1.9	Floor cover	m ³	319.28		
tal carrie	ed to summary page				-

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
4.2.2	Cross Regulator and Head Regulator Structures				
	Earth work				
4.2.2.1	formation level on completion and disposal of surplus in spoil tips including placing up to 300m	m ²	9,302.86		
4.2.2.2	completion and disposal of surplus in spoil as directed by Engineer	m ³	5,444.13		
4.2.2.3	Fill with Selected material obtained from excavated borrow pits and transported to working space compacted to satisfaction of the Engineer	m ³	2,258.92		
4.2.2.4	Provide and fill hard core base 300mm as directed by the Engineer	m ³	790.62		
	Structural works				
4.2.2.5	stone, in sand mortar 1:3	m ³	2,942.61		
4.2.2.6	Providing and Placing in position High Yield Strength ribbed reinforcement bars including cutting, bending, binding and welding joints where necessary, hooking etc. complete as per drawing	Kg	16,944.37		
4.2.2.7	20mm thick 1:3 cement sand plaster to stone	m^2	3,001.43		
4.2.2.8	-	m ²	1,957.90		
4.2.2.9	specified in the Drawing	m ³	914.35		
4.2.2.10	9 1	m^3	236.92		
4.2.2.11	Precast concrete pipe diameter and thickness as mentioned in the drawing				
	Diameter 450 mm	m	1,400.00		
	Diameter 600 mm	m	100.00		
	Diameter 900 mm	m	50.00		
otal carrie	ed to summary page				-
	Secondary Canal Crossing Structures				
	Earth work				
4.2.3.1		m ²	2,024.00		
4.2.3.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	1,324.80		
4.2.3.3	Fill with Selected material obtained from excavated borrow pits and transported to working space compacted to satisfaction of the Engineer	m ³			
4.2.3.4	Provide and fill hard core base 150 mm as directed by the Engineer	m ³	132.48		
	Structural works				
4.2.3.5	work	m ²	4,842.12		
4.2.3.6		m ³	883.20		
4.2.3.7		m ³	1,507.90		
4.2.3.8	Providing and Placing in position High Yield Strength ribbed reinforcement bars including cutting, bending, binding and welding joints where necessary, hooking etc. complete as per drawing	Kg	115,863.06		

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
Total carrie	-				

BILL NO. 5	TERTIARY CANALS			BOQ	
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
5.1	FARM CLEARANCE AND LEVELLING				
5.1.1	Clear the area of the command area from bush, trees, anthills and shrubs average depth 150mm Excavations for cut of raised grounds depth not	На	1500		
5.1.2	exceeding 1.5m, fill of depressions and farmland levelling to achieve design /formation farmland levels as per the Engineers direction	На	1500		
5.2	UNLINED TERTIARY CANALS				
5.2.1	Earth Works Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ²	127,970.78		-
5.2.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	5,251.14		-
5.2.3	Fill with selected material obtained from excavated borrow pits and transported soil(75%) plus 25% gravel materials after blending to form earth bund compacted to satisfaction of the Engineer	m ³	39,584.48		-
Total carrie	ed to summary page				-
5.3	STRUCTURES AND ASSOCIATED WORKS				
5.3.1	Turnout Structures				
	Earth work				
5.3.1.1	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ²	13,454.00		-
5.3.1.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	3,608.13		-
5.3.1.3	Back Fill with excavate material to working space compacted to satisfaction of the Engineer	m ³	1,389.13		-
	Structural work				-
5.3.1.4	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m ³	2,776.22		-
5.3.1.5	Provide and fill Cyclopean concrete with Cement to Hard core ratio of (40:60)% using concrete class of C-20	m ³	468.56		-
5.3.1.6	Concrete class C-25 to gate post and columns	m^3	50.69		-
5.3.1.7	To provide cut and fix in position smooth finish form work to masonry coping	m ²	5,362.98		-
5.3.1.8	Providing and Placing in position High Yield Strength ribbed reinforcement bars including cutting, bending, binding and welding joints where necessary, hooking etc. complete as per drawing	Kg	8,972.98		-
Total carrie	ed to summary page				-

ILL NO. 5	TERTIARY CANALS	вод			
5.3.2	Drop Structures				
	Earth work				
5.3.2.1	Clearing and stripping of the structures area to formation level on completion and disposal of surplus in spoil tips including placing up to 300m	m ²	2,266.20		
5.3.2.2	Excavate of soil to approach channel canal, masonry wall and floor foundation to formation level on completion and disposal of surplus in spoil tips including placing up to 300m away	m ³	7,613.26		
5.3.2.3	Earth fill with selected material obtained from excavated borrow pits and transported soil to masonry wall and floor foundation working space compacted to satisfaction of the Engineer	m ³	1,889.65		
5.3.2.4	·	m ³	96.24		
	Structural work				
5.3.2.5	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m ³	1,827.47		
5.3.2.6	Mass concrete class C-25 to				
5.3.2.7	Masonry coping	m^3	5.59		
5.3.2.8	Floor cover	m^3	22.39		
otal carrie	ed to summary page				

BILL NO. 6	SECONDARY DRAIN			BOQ	
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
6.1	UNLINED SECONDARY DRAINS Earth Work				
6.1.1	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ²	50,269.08		
6.1.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	43,131.02		
Total carrie	ed to summary page				-
6.2	STRUCTRES AND ASSOCIATED WORKS				
6.2.1	Drop Structures				
	Earth work				
6.2.1.1	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ²	17,216.79		
6.2.1.2	completion and disposal of surplus in spoil as directed by Engineer	m ³	9,060.44		
0040	Structural work				
6.2.1.3	stone, in sand mortar 1:3	m ³	4,439.54		
6.2.1.5	masonry sides and floor	m ²	8,664.28		
6.2.1.6	Masonry coping with C25	m ³	245.02		
Total carrie	ed to summary page				-
6.2.2	Pipe Culvert Structures				
	Earth work				
6.2.2.1	formation level on completion and disposal of surplus in spoil as directed by Engineer	m ²	1,485.00		-
6.2.2.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	526.50		-
6.2.2.3	excavated borrow pits and transported soil to masonry wing walls floor foundation working space compacted to satisfaction of the Engineer	m ³	1,890.00		-
6.2.2.4		m ³	677.27		-
6.2.2.5	stone, in sand mortar 1:3 Mass concrete class C20	m ³	326.65		
6.2.2.6					-
0.2.2.0	work to masonry coping	m^2	756.00		-
6.2.2.7	Lean concrete class C-15, 70mm thick blinding under the pipe floor bedding	m ³	810.00		-
6.2.2.8		m ²	1,018.66		-
	the drawing				
6.2.2.9		m	180.00		-
6.2.2.10		m	180.00		-
otal carrie	ed to summary page				-

BILL NO. 7 TERTIARY DRAIN			BOQ				
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)		
7.1	UNLINED TERTIARY DRAINS						
	Earth Work						
7.1.1	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m²	50,051.91				
7.1.2	completion and disposal of surplus in spoil as directed by Engineer	m ³	26,405.62				
Total carrie	ed to summary page				0.00		
7.2	STRUCTURES AND ASSOCIATED WORKS						
7.2.1	Outfall Structures to Secondary Drain						
	Earth work						
7.2.1.1	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m^2	1,696.17				
7.2.1.2		m ³	944.14				
7.2.1.3	Earth fill with selected material obtained from excavated borrow pits and transported soil to stone masonry foundation working space compacted to satisfaction of the Engineer	m ³	368.22				
7.2.1.4	Provide and fill well compacted and blinded with mixed sand and gravel under stone masonry floor to drain side and floor	m ³	116.61				
	Structural work						
7.2.1.5	stone, in sand mortar 1:3	m ³	546.96				
7.2.1.6	, , ,	m^3	92.49				
7.2.1.7	Provide and pointing with cement mortar to the stone masonry sides and floor	m^2	869.94				

ILL NO. 8	FLOOD PROTECTION WORKS	BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
8.1	FLOOD PROTECTION DYKE				
	Earth work				
	Clearing and stripping of along the Dyke to formation				
8.1.1	level on completion and disposal of surplus in spoil as directed by Engineer	m^2	113,600.00		
8.1.2	Fill with selected material obtained from excavated borrow pits and transported soil(75%) plus 25% gravel materials after blending to form earth bund compacted to satisfaction of the Engineer	m ³	43,926.36		
otal carrie	ed to summary page				-
8.2	INTERCEPTOR DRAIN				
8.1	Earth work				
8.2.1	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m^2	92,700.00		
8.2.2	Excavate of ordinary soil to formation level on	m ³	86,345.20		
otal carrie	ed to summary page				-
8.3	STRUCTRES AND ASSOCIATED WORKS				
8.3	Drop Structures				
	Earth work				
8.3.1.1	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m²	2,722.79		
8.3.1.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	2,350.58		
	Structural work				
8.3.1.3	in sand mortar 1:3	m^3	883.61		
8.3.1.4	masonry sides and floor	m ²	1,748.99		
8.3.1.5	, , ,	m ³	25.29		
	ed to summary page				-
8.4	ESCAPE CANAL Earth work				
8.4.1	as directed by Engineer	m²	12,900.00		
8.4.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m^3	6,811.00		
otal carrie	ed to summary page				-
8.5	RIVER DREDGING				
	Earth work				
	River Dredging, Widening, Shaping and disposal of	m ³	21,056.00		
8.5.1	spoil material as directed by the Engineer	m	21,030.00		

Bill no. 9 S	Bill no. 9 STEEL WORK/HYDRO MECHANICAL GATES		BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)	
9.1	DAM OUTLET GATE					
	Steel work					
	Provide for the manufacturing, installation and supervision of gates including hoisting device with a capacity 8 Tons and a spindle diameter of 60mm as specified in the Drawing				-	
9.1.1	2000*1500 (mm)	Nr	4		-	
Total carrie	ed to summary page				-	
9.2	MAIN CANAL GATE					
	Steel work					
	Provide for the manufacturing, installation and supervision of gates including hoisting device with a capacity 8 Tons and a spindle diameter of 60mm as specified in the Drawing					
9.2.1	2000*1200 (mm)	Nr	6		-	
Total carrie	ed to summary page				-	

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
9.3	SC-(1-3) CANAL CR & HR GATE				
	Secondary Canal-(1-3)				
	Provide for the manufacturing, installation and supervision of gates including hoisting device with a capacity 8 Tons and a spindle diameter of 50mm as specified in the Drawing				
9.3.1	900~600*480 (mm)	Nr	8		-
	Tertiary Canals within SC-(1-3)				
9.3.2	Single leaf metal sheet Vertical hand lifted sliding gate with chain and pin lock with 0.4mX0.35m ~0.45m x0.45m as shown on the drawings ana as directed by the Engineer	Nr	15		-
Total carrie	d to summary page				-
9.4	SC-(4-6) CANAL CR & HR GATE				
	Secondary Canal-(4-6)				
	Provide for the manufacturing, installation and supervision of gates including hoisting device with a capacity 8 Tons and a spindle diameter of 50mm as specified in the Drawing				
9.4.1	1000~600*580~480 (mm)	Nr	18		-
	Tertiary Canals within SC-(4-6)				
9.4.2	Single leaf metal sheet Vertical hand lifted sliding gate with chain and pin lock with 0.4mX0.35m ~0.45m x0.45m as shown on the drawings ana as directed by the Engineer	Nr	25		-
Total carrie	d to summary page				-

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
9.5	SC-(7-9) CANAL CR & HR GATE				
	Secondary Canal-(7-9)				
	Provide for the manufacturing, installation and				
	supervision of gates including hoisting device with a				
	capacity 8 Tons and a spindle diameter of 50mm as				
9.5.1	specified in the Drawing 900*810~500(mm)	Nr	14		_
3.3.1	Tertiary Canals within SC-(7-9)	INI	14		_
	Single leaf metal sheet Vertical hand lifted sliding				
	gate with chain and pin lock with 0.4mX0.35m				
	~0.45m x0.45m as shown on the drawings ana as	Nr	15		-
9.5.2	directed by the Engineer				
Total carri	ed to summary page				-
9.6	SC-(10-12) CANAL CR & HR GATE				
	Secondary Canal-(10-12)				
	Provide for the manufacturing, installation and				
	supervision of gates including hoisting device with a				
	capacity 8 Tons and a spindle diameter of 50mm as				
0.04	specified in the Drawing 1200~1000*900~500(mm)	N.I.	4.0		
9.6.1	` ,	Nr	16		-
	Tertiary Canals within SC-(10-12) Single leaf metal sheet Vertical hand lifted sliding				
	gate with chain and pin lock with 0.4mX0.35m				
	~0.45m x0.45m as shown on the drawings ana as	Nr	15		-
9.6.2	directed by the Engineer				
Total carri	ed to summary page				-
9.7	SC-(13-16) CANAL CR & HR GATE				
	Secondary Canal-(13-16)				
	Provide for the manufacturing, installation and				
	supervision of gates including hoisting device with a				
	capacity 8 Tons and a spindle diameter of 50mm as				
	specified in the Drawing				
9.7.1	900*600~510(mm)	Nr	15		-
	Tertiary Canals within SC-(13-16)				
	Single leaf metal sheet Vertical hand lifted sliding gate with chain and pin lock with 0.4mX0.35m				
	~0.45m x0.45m as shown on the drawings ana as	Nr	24		-
9.7.2	directed by the Engineer				
	ed to summary page				-
9.8	SC-(17-20) CANAL CR & HR GATE				
	Secondary Canal-(17-20)				
	Provide for the manufacturing, installation and				
	supervision of gates including hoisting device with a				
	capacity 8 Tons and a spindle diameter of 50mm as				
	specified in the Drawing				
9.8.1	1000~650*560~400(mm)	Nr	15		-
	Tertiary Canals within SC-(17-20)				
9.8.2	Single leaf metal sheet Vertical hand lifted sliding				
	gate with chain and pin lock with 0.4mX0.35m	Nr	25		-
	~0.45m x0.45m as shown on the drawings ana as directed by the Engineer				
	unected by the Engineer				

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
Total carrie	ed to summary page				-
9.9	SC-(21-24) CANAL CR & HR GATE				
	Secondary Canal-(21-24)				
	Provide for the manufacturing, installation and				
	supervision of gates including hoisting device with a				
	capacity 8 Tons and a spindle diameter of 50mm as				
	specified in the Drawing				
9.9.1	1000~650*560~400(mm)	Nr	14		-
	Tertiary Canals within SC-(21-24)				
9.9.2	Single leaf metal sheet Vertical hand lifted sliding				
	gate with chain and pin lock with 0.4mX0.35m	Nr	28		_
	~0.45m x0.45m as shown on the drawings ana as	INI	20		_
	directed by the Engineer				
Total carrie	ed to summary page				-
9.10	SC-(25-27) CANAL CR & HR GATE				
	Secondary Canal-(25-27)				
	Provide for the manufacturing, installation and				
	supervision of gates including hoisting device with a				
	capacity 8 Tons and a spindle diameter of 50mm as				
	specified in the Drawing				
9.10.1	1000~650*560~400(mm)	Nr	11		-
	Tertiary Canals withinSC-(25-27)				
9.10.2	Single leaf metal sheet Vertical hand lifted sliding				
	gate with chain and pin lock with 0.4mX0.35m	Nr	18		_
	~0.45m x0.45m as shown on the drawings ana as				
T-1-1:	directed by the Engineer				
	ed to summary page	<u> </u>	1		-
9.11	SC-(28-30) CANAL CR & HR GATE				
	Secondary Canal-(28-30)				
	Provide for the manufacturing, installation and				
	supervision of gates including hoisting device with a				
	capacity 8 Tons and a spindle diameter of 50mm as				
9.11.1	specified in the Drawing 1000~650*560~400(mm)	Nr	8		
9.11.1	Tertiary Canals withinSC-(28-30)	INI	0		-
9.11.2	` '				
9.11.2	Single leaf metal sheet Vertical hand lifted sliding gate with chain and pin lock with 0.4mX0.35m				
	~0.45m x0.45m as shown on the drawings ana as	Nr	22		-
	directed by the Engineer				
Total carrie	ed to summary page				_
9.12	SC-(31-32) CANAL CR & HR GATE	1	1		
J.12	Secondary Canal-(31-32)				
	UCUUIUAI V VAIIAITIJ ITJEI				
	Provide for the manufacturing, installation and				
	Provide for the manufacturing, installation and supervision of gates including hoisting device with a				
	Provide for the manufacturing, installation and supervision of gates including hoisting device with a capacity 8 Tons and a spindle diameter of 50mm as				
9.12.1	Provide for the manufacturing, installation and supervision of gates including hoisting device with a	Nr	9		-

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
9.13.2	Single leaf metal sheet Vertical hand lifted sliding gate with chain and pin lock with 0.4mX0.35m ~0.45m x0.45m as shown on the drawings ana as directed by the Engineer	Nr	15		-
Total carrie	ed to summary page				-

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
9.13	TURN OUT FIELD GATE CONCRETE TYPE				
	Tertiary Turn out				
	Provide for manufacture, installation and supervision of single leaf concrete vertical hand lifted sliding gate with concrete frame as specified in the drawing (AIP/TCFCHR/DG-109-114) and as directed by the Engineer				
9.13.1	450*450(mm)	Nr	1,450		-
Total carri	ed to summary page				-

BILL NO. 10	O ACCESS AND SCHEME ROADS			BOQ	
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
10.1	ACCESS ROAD				
10.1.2	Grade the District roads to appropriate camber and long slope filling depresions with approved material and provide road drains where appropriate	km	20		
10.1.3	Provide and haul gravel material/murram spread, shape, watering and compact in layers not exceeding 150mm thickness to atleast 95% MoD AASHTO to the existing surface material (through a section of 300mm thickness and width of 4.5m)	m³	27,000		
Total carrie	d to summary page				-
	Access road length is about 76.95 Km				
10.2	MAIN & SECONDARY CANAL SCHEME ROAD				
	Earth work				
10.2.1	Clearing and stripping of construction area of access road along the Main and Secondary canals to formation level on completion and disposal of surplus in spoil tips including placing up to 500 m away	m²	462,000		-
10.2.2	Excavation for the road foundation on completion including treaming for v shaped side ditches	m ³	77,000		-
	Sub base gravel material material				
10.2.3	Provide and haul gravel material/murram spread, shape, watering and compact in layers not exceeding 150mm thickness to atleast 95% MoD AASHTO to the existing surface material (through a section of 300mm thickness and width of 4.5m)	m ³	103,950		-
Total carrie	ed to summary page	<u> </u>			_
1	CULVERT CROSSING STRUCTURES	l	T .	<u> </u>	
10.3	Earth work				
10.3.1	Pipe Culvert Structures				
10.3.2	·				
10.3.3	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ²	880.00		-
	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	312.00		-
10.3.4	Earth fill with selected material obtained from excavated borrow pits and transported soil to masonry wing walls floor foundation working space compacted to satisfaction of the Engineer	m ³	1,120.00		-
10.3.5	Structural work				
10.3.6	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m ³	401.35		-
10.3.7	Mass concrete class C20	m ³	193.57		-
10.3.8	To provide cut and fix in position smooth finish form work to masonry coping	m²	448.00		-
10.3.9	Lean concrete class C-15, 70mm thick blinding under the pipe floor bedding	m²	480.00		-
10.3.10	20mm thick 1:3 cement sand plaster to stone masonary drop structure	m ²	603.65		-

BILL NO. 10 ACCESS AND SCHEME ROADS			BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)	
10.1	ACCESS ROAD					
10.1.2	Grade the District roads to appropriate camber and long slope filling depresions with approved material and provide road drains where appropriate	km	20		-	
10.1.3	Provide and haul gravel material/murram spread, shape, watering and compact in layers not exceeding 150mm thickness to atleast 95% MoD AASHTO to the existing surface material (through a section of 300mm thickness and width of 4.5m)	m ³	27,000		-	
Total carrie	d to summary page				-	
	Access road length is about 76.95 Km					
10.3.11	Precast concrete pipe and thickness as mentioned in the drawing					
10.3.12	Diameter 1200 mm	m	112.00		-	
Total carried to summary page						

BILL NO. 1	BILL NO. 12 SCHEME FACILITIES		BOQ			
Bill No.	Description	UNIT	Q'TY	Unit Rate (UGX)	AMOUNT (UGX)	
11.1	LIVESTOCK WATERING					
	Type 1 three (3 no.) Cattle Troughs on SC					
	Earth Work					
11.1.1	Clearing and stripping of the structures area to formation level on completion and disposal of surplus in spoil tips including placing up to 300m away	m ²	150		-	
11.1.2	Compacted back fill with selected material	m^3	36		-	
11.1.3	Structural work				-	
11.1.4	2 inch GS Inlet Pipe(Size;50mm)	m	48		-	
11.1.5	Compacted Selected Granular materal	m^3	25		-	
11.1.6	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m ³	73		-	
11.1.7	Stone Rip-Rap of Bedding	m^3	56		-	
Total for 3	otal for 3no. Type 1 cattle troughs					

Bill No.	Description	UNIT	Q'TY	Unit Rate (UGX)	AMOUNT (UGX)
	Type 2 three (3 no.) Cattle Troughs on SC				
	SITE CLEARANCE				
11.1.8		ha	0.15		-
	EXCAVATION				
	Top soil for disposal & cart to spoil 300m away from				
11.1.9		m³	60.00		-
	Ordinary soil for disposal & cart to spoil 500mand				
	spread as instructed				
11.1.10		m³	90.00		-
	BASE SLAB (PLATFORM)				
11.1.11		2	405.00		
	compacted	m ²	135.00		-
	Murram Blinding				
	Supply and place well compacted murram of the				
	following thickness				
11.1.12	50mm thick blinding	m³	12.00		-
	REINFORCED CONCRETE				
	Supply and cast well vibrated reinforced concrete,				
	class C25 of the following thickness				
11.1.13		m³	21.00		-
11.1.14		³			
	thickness not exceeding 100mm	m³	2.10		-
	Reinforcement				
11.1.15	Supply and fix a BRC (Wire mesh) of size A193	m^2	135.00		-
11.1.16		kg	600.00		-
	CONCRETE ANCILLARIES	9			
	Form work; fair finish				
	Plane and Vertical formwork for trough base slab				
11.1.17	Width 0.3m	m ²	90.00		-
	Plane and sloping formwork for trough walls		00.00		
11.1.18		m ²	60.00		_
	PIPEWORK	111	00.00		
	Trench excavation and pipe installation				
	Plastic Pressure Pipes				
	(All pipes and fittings flanged and adapted as required				
	including relevant bolts, nuts and washers or other				
	specified interconnections)				
	Excavate pipe trenches depth not exceeding in				
	ordinary soil, lay, join and backfill pipeline of the				
11.1.19		m	300.00		-
	GI Pipes	•••	000.00		
	Supply and fix 40mm GI pipes for the cattle watering				
	troughs inlet				
11.1.20					
	troughs inlet	m	45.00		-
11.1.21	Ditto, 50mm for cattle watering troughs washouts	m	36.00		_
	Fitting installation				
	Supply and install fittings for the pipework to PN 10 of				
	the following sizes				
11.1.22		Nr	45.00		-
11.1.23		Nr	12.00		_
11.1.24		Nr	30.00		_
11.1.25		Nr	30.00		-
11.1.26		nr	12.00		-
	no. type 2 cattle trough				-
	ed to summary page				0.00
					0.00

Bill No.	Description	UNIT	Q'TY	Unit Rate (UGX)	AMOUNT (UGX)
11.2	SANITATION FACILITIES (25 No.)				
	SUB STRUCTURE				
11.2.1	General Site clearence	На	0.48		-
	Excavation				-
11.2.2	Excavate oversite average depth 150mm to remove				
	the vegetable soil and deposit in heaps 300m away	m²	38.50		-
	from site in an appropriate place to Engineer's				
11.2.3	Excavation for foundations, in material other than top				
	soil, rock or artificial hard material, commencing	m³	3.13		-
	surface is the stripped ground level depth 0.25 - 1.5				
11.2.4	Ditto for vault ground level depth 2-5.	m³	22.48		-
11.2.5	Return fill and Ramp to back fill	m³	1.47		-
	Approved Hardcore filling as described;				-
11.2.6		m³	0.78		_
	200mm thick				
11.2.7	Blind the hardcore With 50mm sand	m²	3.87		-
11.2.8					-
11.2.9	. ,	m²	3.87		_
	450mm laps as joints				
	Designed mix, grade C20 concrete, to BS 5328, with				
	ordinary Portland cement to BS 12, 20mm aggregate				-
	to BS882, for the following aggregate sizes				
11.2.10	·	m³	0.39		-
44.0.44	and cured to the satisfaction of the Engineer				
11.2.11	100mm thick foundation well compacted with a vibrator	m³	0.59		-
44.0.40	and cured to the satisfaction of the Engineer				
11.2.12	·	nr	1.00		-
44.0.40	opening for the pit	2	E 0.4		
11.2.13		m³	5.84		-
11 2 14	Approved brickwall in cement-mortar (1:4)				-
11.2.14	Erect 200mm thick brick wall up to a height as indicated in the drawings for the pit. Leave provisions	m²	31.06		-
11.2.15					
11.2.13	concrete	m²	5.64		-
11.2.16	Apply 2 coats of bituminous paint to plinth wall	m²	5.64		-
11.2.10	Sawn formwork as described to;	1117	5.04		
11.2.17		m²	2.89		
11.2.17		111-	2.09		-
11.2.10	intermediate beam	m²	8.21		-
11.2.19		m²	2.75		_
11.2.19		m ²	40.50		
11.2.21	Sides and soffites of the slab at the bottom of the pit	m ²	0.85		
11.2.21	Designed mix, grade C25 concrete, to BS 5328, with	111	0.00		
	ordinary Portland cement to BS 20, 12mm aggregate				
	to BS882, for the following;				
11.2.22					
	ground beam	m³	0.68		-
11.2.23		m³	0.29		_
11.2.24			5.20		
	compacted with a vibrator and cure to the satisfaction	m³	0.76		_
	of the Engineer. Leave provisions for squat holes and	•••] 30		
	Reinforcement bars to BS 4449 as described in				
	reinforced concrete slab				-
	175mm thick ground slab with				-
11.2.25					
	including bends, hooks, binding wire in the beam to	kg	24.46		_
	Engineer's Approval	3	1		
	-iigiiiooi o / ippiorai		I	1	

Bill No.	Description	UNIT	Q'TY	Unit Rate (UGX)	AMOUNT (UGX)
	Ground beams and intermediate beams				-
11.2.26					
	including bends, hooks, binding wire in the beam to	kg	41.91		_
	Engineer's Approval	9			
11.2.27	8mm mild round steel links at ditto	kg	8.09		-
	Columns				-
11.2.28	Y10mm diameter cold worked square twisted bars at				
	including bends, hooks, binding wire in the beam to	kg	17.93		-
	Engineer's Approval				
11.2.29	8mm mild round steel links at ditto	kg	6.62		-
	SUPERSTRUCTURE				-
11.2.30	Approved brickwall in cement-mortar (1:4)				-
11.2.31	Approved brickwall (150mm thick) in cement-mortar	m²	21		_
	(1:4)	111	21		_
11.2.32	Sawn formwork as described to;				-
11.2.33		m²	4		-
11.2.34					-
11.2.35		m³	0.27		-
	Reinforcement bars to BS 4449 as described in				-
	reinforced concrete ring beam				
	10mm cold worked square twisted high yield steel bars	kg	23		-
11.2.37	including bends and hooks to Engineer's Approval 8mm mild round steel links at 200 c/c ditto	lea.	14		
11.2.37		kg	14		-
11.2.39					-
11.2.39	Mortar (1:3)	m²	1		-
	Roofing				
	Construct roofing, complete as in the drawings and as				
	specified; include tie beams, purlins, rafters, struts, wall	_			
	plate, and all roofing timber with wood protection coat,	m²	11		-
	gauge 28 blue prepainted Galvanized Iron sheeting and				
	PVC Fascia Board				-
	Light weight, self extinguishing and non-flammable pre-				
	painted approved pvc as described;				-
11.2.41	225mm x 9mm pvc fascia board	m	14		-
	FINISHING				-
	Cement Sand (1:4) plaster as described;				-
11.2.42	•	m²	15		_
	receive paint				
11.2.43	Ditto the external wall but finish with wooden float	m²	17		-
11.2.44			4-		-
11.2.45	Rough cast the external walls	m²	17		-
	Cement-sand screed (1:3) as described;				-
11.2.47	20mm cement:sand screed 1:3 Floor finish to the floor	m ²	0		
	of the vaults and ramp, and finish smooth with a steel	m²	9		-
	float using cement grout PAINTING				-
11.2.48					-
11.2.40	silk emulsion paint to the surface brick plastered	m²	15		-
11.2.49	Ditto the external wall	m²	17		_
	DOORS AND IRON MONGERY	111	· · ·		_
	Doors				-
	Supply and fix hardwood frame and panel door,				
	including a door frame made of hardwood timber with				
	vent on door lintel complete with iorn mongery and of				-
	the following sizes				
11.2.50					
	door, size 800 x 1800mm high, including a door frame	nr	2		-
	made of 150x50mm hardwood timber to Engineer's				

Bill No.	Description	UNIT	Q'TY	Unit Rate (UGX)	AMOUNT (UGX)
11.2.51	50 x 100mm mahogany timber - frames	nr	2		-
11.2.52	Ironmongery Hinges	nr	6		-
11.2.53	150mm tower blots	nr	2		-
11.2.54	2kg padlock	nr	2		-
	e two stance lined pit latrine				0.0
	d to summary page (25 no.)		T		0.0
11.3	FARM SHED (35no.)				
	SUB STRUCTURE				
	Excavation				
11.3.1	Excavate oversite average depth 150mm to remove		44		
	the vegetable soil and deposit in heaps 300m away	m²	15.54		-
11.3.2	from site in an appropriate place to Engineer's				
11.3.2	Excavation for foundations, in material other than top soil, rock or artificial hard material, commencing	m³	10.20		
	surface is the stripped ground level depth 0.25 - 1.5	1119	10.20		-
11.3.3	Return fill and Ramp to back fill	m³	8.64		
11.3.4	<u> </u>	1117	0.04		-
	Approved Hardcore filling as described;				-
11.3.5	Approved anti termite treatement aplied to sides and bottoms of all excavations top of hardcore etc	SM	5.94		-
11.3.6	Lay, compact and level well approved hardcore bed				
11.3.0	200mm thick	m³	3.60		-
11.3.7	Blind the hardcore With 50mm sand	m²	5.94		_
11.0.7	Approved Damp proof membrane as described;	111	J.34		_
11.3.8	1000 Gauge horizontal polythene sheeting laid with				-
11.3.0	450mm laps as joints	m²	7.50		-
	Designed mix, grade C20 concrete, to BS 5328,				
	with ordinary Portland cement to BS 12, 20mm				_
	aggregate to BS882, for the following aggregate				
11.3.9	100mm thick foundation well compacted with a vibrator		0.05		
	and cured to the satisfaction of the Engineer	m³	2.05		-
11.3.10	BRC Mesh A142 with over laps 150mm	m³	15.54		-
	Approved brickwall in cement-mortar (1:4)				-
11.3.11	200mm thick of blocks in 1:4 cement sand mortar for				
	plinth wall including reinforcement with mansory	CM	25.20		
	anchors using galvanised mild steel ties BS 4360	SM	25.30		-
	(hoop iron)every two courses				
11.3.12	Apply 2 coats of bituminous paint to plinth wall	m²	25.30		-
11.3.13	Concrete blinding in pad foundation 75mm thick	SM	4.68		-
	Sawn formwork as described to;				-
11.3.14	sides of concrete columns	m²	5.60		-
11.3.15	Sides and soffites of the slab	m²	3.30		-
11.3.16	Sides of Foundations	m²	3.20		-
	Columns				_
11.3.17	Y16mm diameter cold worked square twisted bars at				
	including bends, hooks, binding wire in the beam to	kg	90.60		_
	Engineer's Approval	9			
11.3.18	8mm mild round steel links at ditto	kg	20.90		-
11.3.19	Concrete footing of columns	CM	3.10		_
11.3.20	Concreting to stub columns	CM	1.20		<u>-</u>
	SUPERSTRUCTURE	5.01	0		_
	Approved brickwall in cement-mortar (1:4)				-
11.3.21	230mm thick masonry using solid block wall,mild steel				-
11.3.41	laid to form alternate courses of headers and	SM	10.10		_
	stretchers, laid on and incl. mortar ratio 1:3	CIVI	10.10		-
11.3.22	Sawn formwork as described to;				_
11.0.22	Carri formitton as accombation to,				

Bill No.	Description	UNIT	Q'TY	Unit Rate (UGX)	AMOUNT (UGX)
11.3.24	Reinforced concrete 1:2:4 in:				_
11.3.25		m³	0.23		
	Reinforcement bars to BS 4449 as described in	111	0.20		
	reinforced concrete ring beam and column				-
11.3.26					
	including bends, hooks, binding wire in the beam to	kg	139.06		-
	Engineer's Approval				
11.3.27	8mm mild round steel links at ditto	kg	42.46		-
	Roof slab				-
11.3.28	Sides and soffites of the slab	m²	15.54		-
	Reinforcement bars to BS 4449 as described in				
	reinforced concrete slab				-
11.3.29	Y8mm diameter cold worked square twisted bars at				
	including bends, hooks, binding wire in the beam to	kg	89.00		-
	Engineer's Approval				
11.3.30	,				
	compacted with a vibrator and cure to the satisfaction	m³	1.55		-
11.3.31	of the Engineer. Concreting to columns	CM	0.04		
		CIVI	0.34		-
	FINISHING				-
44.0.00	Cement Sand (1:4) plaster as described;				-
11.3.32	20mm thick 1:3 cement sand plaster on internal walls (internal surfaces)	m²	20.00		-
11.3.33	,				
11.5.55	(external surfaces)	m²	25.60		-
11.3.34	Cement-sand screed (1:3) as described;				_
11.3.35					
11.0.00	of the vaults and ramp, and finish smooth with a steel	m²	15.54		_
	float using cement grout				
	PAINTING				-
11.3.36	Apply one under coat and two coats finishing of vinyl				
	silk emulsion paint to the surface brick plastered	m²	50.65		-
	including celling paint				
11.3.37	Ditto the external wall	m²	30.50		-
	e Farm shed				0.0
	d to summary page (10 no.)		1	ı	0.0
11.4	GUARD HOUSE (3no.)				
	SUB STRUCTURE				
	Excavation				
11.4.2			45.51		
	the vegetable soil and deposit in heaps 300m away	m²	15.54		-
11.4.3	from site in an appropriate place to Engineer's Excavation for foundations, in material other than top				
11.4.3	soil, rock or artificial hard material, commencing	m³	10.20		_
	surface is the stripped ground level depth 0.25 - 1.5	111	10.20		_
11.4.5	Return fill and Ramp to back fill	m³	8.64		-
	Approved Hardcore filling as described;		3.07		-
11.1.15	<u> </u>	_			
	bottoms of all excavations,top of hardcore etc	SM	5.94		-
11.4.6		2	0.00		
	200mm thick	m³	3.60		-
11.4.7	Blind the hardcore With 50mm sand	m²	5.94		-
11.4.8	Approved Damp proof membrane as described;				-
11.4.9		m²	7.50		
	450mm laps as joints	1117	7.50		

Designed mix, grade C20 concrete, to BS 5328, with ordinary Portland cement to BS 12, 20mm aggregate to BS82, for the following aggregate 114.411 100mm thick to modation well compacted with a vibrator and cured to the satisfaction of the Engineer 114.413 BRC Mesh A142 with over laps 150mm m³ 2.05 114.419 BRC Mesh A142 with over laps 150mm m³ 15.54 11.4.19 200mm thick of blocks in 1.4 cement sand mortar for plant wall including reinforcement with mansory anchors using galvanised mild steel ties BS 4360 m³ 25.30 11.4.16 Apply 2 coats of bituminous paint to plinth wall m² 25.30 11.4.17 Sawn formwork as described to; 11.4.19 Sides and soffites of the slab m² 3.30 11.4.19 Sides of concrete columns m² 5.60 11.4.19 Sides of Foundations m² 3.30 11.4.20 Sides of Foundations m² 3.20 11.4.21 Y16mm diameter cold worked square twisted bars at including bends, hooks, binding wire in the beam to Engineer's Approval m² m² m² m² m² m² m² m	Bill No.	Description	UNIT	Q'TY	Unit Rate (UGX)	AMOUNT (UGX)
14.411 1.00mm thick toundation well compacted with a bribator and cured to the satisfaction of the Engineer 3 2.05 3 11.4.13 BRC Mesh A142 with over laps 150mm m³ 2.05 3 15.54						
11.4.11 100mm thick foundation well compacted with a vibrator and curred to the satisfaction of the Engineer m 2 2.05 11.4.13 BRC Mesh A142 with over laps 150mm Approved brickwall in cement-mortar (1-4) 11.1.19 200mm thick of blocks in 1.4 cement sand mortar for plinth wall including reinforcement with mansory anchors using galvanised mild steel ties BS 4800 (hoop iron jevery two courses						-
and cured to the satisfaction of the Engineer ## 15.54 Approved brickwall in cement-mortar (1:4) 11.1.19 200mm thick of blocks in 1-4 cement sand mortar for price of the price of	44 4 44					
Approved brickwall in cement-mortar (1:4) 11.1.19 200mm thick of blocks in 14-cement sand mortar for plinth wall including reinforcement with mansory anchors using galvanised mild steel ties BS 4360 (hoop iron)every two courses 11.4.16 Apply 2 coats of bituminous paint to plinth wall m² 25.30	11.4.11		m³	2.05		-
Approved brickwall in cement-mortar (1:4) 11.1.9 200mm thick of blocks in 1-4 cement sand mortar for printh wall including reinforcement with mansory anchors using galvanised mild steel ties B\$ 4360 (hop iron)every two courses 11.4.16 Apply 2 coats of bituminous paint to plinth wall m² 25.30 - 11.1.27 Concrete blinding in pad foundation 75mm thick SM 4.68 - 33mm formwork as described to; 11.4.17 sides of concrete columns m² 5.60 - 11.4.17 sides of concrete columns m² 3.30 - 11.4.20 Sides and soffities of the slab m² 3.30 - 11.4.20 Sides and soffities of the slab m² 3.30 - 11.4.20 Sides and soffities of the slab m² 3.30 - 11.4.20 Sides and soffities of the slab m² 3.30 - 11.4.20 Sides and soffities of the slab m² 3.30 - 11.4.20 Sides and soffities of the slab m² 3.30 - 11.4.20 Sides and soffities of the slab m² 3.30 - 11.4.20 Sides and soffities of the slab m² 3.30 - 11.4.20 Sides and soffities of the slab m² 3.30 - 11.4.20 Sides and soffities of the slab m² 3.30 - 11.4.20 Sides and soffities of the slab m² 3.30 - 11.4.20 Sides and soffities of the slab m² 3.30 - 11.4.20 Sides and soffities of the slab m² 3.30 - 11.4.20 Sides and soffities of the slab m² 3.30 - 11.4.20 Sides and soffities of the slab m² 3.30 - 11.4.20 Sides and soffities of reinforced concrete beam m² 1.50 - 11.4.30 Sides and soffities of reinforced concrete beam m² 1.56 - 11.4.31 Sides and soffities of reinforced concrete beam m² 1.56 - 11.4.32 Sides and soffities of reinforced concrete beam m² 1.56 - 11.4.33 Sides and soffities of reinforced concrete beam m² 1.56 - 11.4.31 Sides and soffities of reinforced concrete beam m² 1.56 - 11.4.31 Sides and soffities of reinforced concrete beam m² 1.56 - 11.4.31 Sides and soffities of reinforced concrete ing beam and column reinforced concrete ring beam and column reinforced concrete ring beam and column reinforced concrete ring beam and column reinforced concrete slab m² 11.4.31 Sides and soffities of the slab m² 11.4.31 Sides and soffities of the slab m² 11.4.31 Sides and soffities of the slab m²	11.4.13		m³	15.54		-
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plinth wall including reinforcement with mansory anchors using galvanised mild steel ties BS 4360 (hoop iron) every two courses 11.4.16 Apply 2 coats of bituminous paint to plinth wall m² 25.30 Concrete binding in pad foundation 75mm thick SM 4.68 Sawn formwork as described to; 11.4.17 sides and soffites of the slab m² 3.30 11.4.20 Sides of concrete columns m² 3.20 Columns 11.4.28 Y16mm diameter cold worked square twisted bars at including bends, hooks, binding wire in the beam to Engineer's Approval and stretchers, laid on and incl.mortar ratio 1:3 11.4.29 Rmm mild round steel links at ditto kg 20.90 11.1.30 Concreting to stub columns CM 1.20 Approved brickwall in cement-mortar (1:4) 11.1.40 230mm thick masonry using solid block wall, mild steel laid to form alternate courses of headers and stretchers, laid on and incl.mortar ratio 1:3 11.4.32 Sawn formwork as described to; 11.4.35 200mm reinforced concrete ring beam m² 0.23 Reinforcement bars to BS 4449 as described in reinforced concrete ring beam and column reinforced concrete ring beam and column reinforced concrete ring beam and column reinforced concrete slab m? 11.4.36 Y8mm mild round steel links at ditto kg 42.46 11.4.37 Sides and soffities of reinforced concrete beam m² 1.56 Reinforcement bars to BS 4449 as described in reinforced concrete ring beam and column reinforced concrete slab 11.4.38 Rmm mild round steel links at ditto kg 42.46 Rof slab 11.4.39 Sides and soffities of the slab Reinforcement bars to BS 4449 as described in reinforced concrete slab 11.4.39 Sides and soffities of the slab Reinforcement bars to BS 4449 as described in reinforced concrete slab 11.4.39 Sides and soffities of the slab Reinforcement bars to BS 4449 as described in reinforced concrete slab 11.4.21 Sides and soffities of the slab Reinforcem	11.1.19					
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11.4.16 Apply 2 coats of bituminous paint to plinth wall 11.1.27 Concrete blinding in pad foundation 75mm thick Sawn formwork as described to; 11.4.17 sides of concrete columns 11.4.19 Sides of concrete columns 11.4.20 Sides of Foundations 11.4.20 Concrete footing of columns 11.4.20 Concrete footing of columns 11.4.20 Concrete footing of columns 11.4.20 Superstructure Approved brickwall in cement-mortar (1:4) 11.4.40 230mm thick masonry using solid block wall,mild steel laid to form alternate courses of headers and stretchers,laid on and incl.mortar ratio 1:3 11.4.31 Sides and soffites of reinforced concrete beam 11.4.32 Sides and soffites of reinforced concrete beam 11.4.33 Sides and soffites of reinforced concrete beam 11.4.34 Reinforced concrete 1:2:4 in: 11.4.35 Sides and soffites of reinforced concrete beam 11.4.36 Namm mild round steel links at ditto 11.4.37 Reinforced concrete ing beam and column 11.4.38 Romm mild round steel links at ditto 11.4.39 Sides and soffites of the slab 11.4.30 Sides and soffites of the slab 11.4.31 Sides and soffites of the slab 11.4.32 Sides and soffites of the slab 11.4.34 Sides and soffites of the slab 11.4.35 Sides and soffites of the slab 11.4.36 Sides and soffites of the slab 11.4.37 Sides and soffites of the slab 11.4.39 Sides and soffites of the slab 11.4.30 Sides and soffites of the slab 11.4.31 Sides and soffites of the slab 11.4.32 Sides and soffites of the slab 11.4.34 Sides and soffites of the slab 11.4.35 Sides and soffites of the slab 11.4.41 Sides and soffites of the slab 11.4.42 Sides and soffites of the slab 11.4.41 Sides and sof			SIVI	25.50		-
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11.4.19 Sides and soffites of the slab m² 3.30 - 11.4.20 Sides of Foundations m² 3.20 - Columns 11.4.28 Y16mm diameter cold worked square twisted bars at including bends, hooks, binding wire in the beam to Engineer's Approval Engineer's Approval 11.4.29 8mm mild round steel links at ditto kg 20.90 - 11.1.29 Concrete footing of columns CM 3.10 - Concreteing to stub columns CM 3.10 - SUPERSTRUCTURE Approved brickwall in cement-mortar (1:4) - 11.1.40 230mm thick masonry using solid block wall, mild steel laid to form alternate courses of headers and stretchers, laid on and incl. mortar ratio 1:3 SM 17.74 stretchers, laid on and incl. mortar ratio 1:3 Sides and soffites of reinforced concrete beam m² 1.56 - 11.4.33 Sides and soffites of reinforced concrete beam m² 0.23 - Reinforcement bars to BS 4449 as described in reinforced concrete ring beam and column reinforced concrete slab reinfo	44 4 4 7	•				
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including bends, hooks, binding wire in the beam to Engineer's Approval 11.4.29 8mm mild round steel links at ditto kg 20.90 11.1.29 Concrete footing of columns CM 3.10 11.1.30 Concreting to stub columns CM 1.20 SUPERSTRUCTURE Approved brickwall in cement-mortar (1:4) 11.1.40 230mm thick masonry using solid block wall,mild steel laid to form alternate courses of headers and stretchers,laid on and incl.mortar ratio 1:3 11.4.32 Sawn formwork as described to; 11.4.33 Sides and soffites of reinforced concrete beam m² 1.56 11.4.34 Reinforced concrete 1:2:4 in: 11.4.35 200mm reinforced concrete ring beam m³ 0.23 Reinforcement bars to BS 4449 as described in reinforced concrete ring beam and column 11.4.36 Yfem diameter cold worked square twisted bars at including bends, hooks, binding wire in the beam to Engineer's Approval 11.4.37 Sides and soffites of the slab 11.4.38 Reinforcement bars to BS 4449 as described in reinforced concrete ring beam and column 11.4.39 Rem mild round steel links at ditto Reinforcement bars to BS 4449 as described in reinforced concrete old worked square twisted bars at including bends, hooks, binding wire in the beam to Engineer's Approval 11.4.31 Sides and soffites of the slab Reinforcement bars to BS 4449 as described in reinforced concrete slab 11.4.32 Sides and soffites of the slab Reinforcement bars to BS 4449 as described in reinforced concrete slab 11.4.39 Y8mm diameter cold worked square twisted bars at including bends, hooks, binding wire in the beam to Engineer's Approval 11.4.30 Y8mm diameter cold worked square twisted bars at including bends, hooks, binding wire in the beam to Engineer's Approval 11.4.30 Concreting to columns Cement Sand (1:4) plaster as described; 11.4.41 20mm thick 1:3 cement sand plaster on internal walls 27.64	44.4.00					-
Engineer's Approval 11.4.29 8mm mild round steel links at ditto kg 20.90 11.1.30 Concreting to stub columns CM 3.10 SUPERSTRUCTURE Approved brickwall in cement-mortar (1:4) 11.1.40 230mm thick masonry using solid block wall,mild steel laid to form alternate courses of headers and stretchers,laid on and incl.mortar ratio 1:3 11.4.32 Sawn formwork as described to; 11.4.33 Sides and soffites of reinforced concrete beam m² 1.56 11.4.34 Reinforced concrete 1:2:4 in: 11.4.35 200mm reinforced concrete ring beam m³ 0.23 Reinforced concrete ring beam and column 11.4.36 Y16mm diameter cold worked square twisted bars at including bends, hooks, binding wire in the beam to Engineer's Approval 11.4.21 Sides and soffites of the slab Reinforcement bars to BS 4449 as described in reinforced concrete blinks at ditto kg 42.46 Roof slab 11.4.21 Sides and soffites of the slab Reinforcement bars to BS 4449 as described in reinforced concrete slab, well compacted with a vibrator and cure to the satisfaction of the Engineer's Approval 11.4.36 Y8mm diameter cold worked square twisted bars at including bends, hooks, binding wire in the beam to Engineer's Approval 11.4.21 Sides and soffites of the slab Reinforcement bars to BS 4449 as described in reinforced concrete slab 11.4.24 100mm thick, reinforced concrete slab, well compacted with a vibrator and cure to the satisfaction of the Engineer. 11.1.30 Concreting to columns CM 0.34 FINISHING Cement Sand (1:4) plaster as described; 11.1.41 20mm thick 1:3 cement sand plaster on internal walls	11.4.28		ka	00.60		
11.4.29 8mm mild round steel links at ditto kg 20.90 11.1.29 Concrete footing of columns CM 3.10 11.1.30 Concreting to stub columns CM 1.20 SUPERSTRUCTURE Approved brickwall in cement-mortar (1:4) 11.1.40 230mm thick masonry using solid block wall,mild steel laid to form alternate courses of headers and stretchers, laid on and incl. mortar ratio 1:3 11.4.32 Sawn formwork as described to; 11.4.33 Sides and soffites of reinforced concrete beam m² 1.56 11.4.34 Reinforced concrete 1:2:4 in: 11.4.35 200mm reinforced concrete ring beam m³ 0.23 Reinforcement bars to BS 4449 as described in reinforced concrete ring beam and column reinforced concrete slab rincluding bends, hooks, binding wire in the beam to Engineer's Approval reinforced concrete slab rincluding bends, hooks, binding wire in the beam to Engineer's Approval reinforced concrete slab rincluding bends, hooks, binding wire in the beam to Engineer's Approval reinforced concrete slab rincluding bends, hooks, binding wire in the beam to Engineer's Approval reinforced concrete slab rincluding bends, hooks, binding wire in the beam to Engineer's Approval reinforced concrete slab reinforced reinforced reinforced reinforced reinfor			ky	90.00		-
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FINISHING Cement Sand (1:4) plaster as described; 11.1.41 20mm thick 1:3 cement sand plaster on internal walls m² 27 64		of the Engineer.				
Cement Sand (1:4) plaster as described; 11.1.41 20mm thick 1:3 cement sand plaster on internal walls m² 27 64	11.1.30	<u>-</u>	CM	0.34		-
11.1.41 20mm thick 1:3 cement sand plaster on internal walls						-
· I M2 I // b/I I I I I I I I I I I I I I I I						-
	11.1.41	20mm thick 1:3 cement sand plaster on internal walls (internal surfaces)	m²	27.64		_

Bill No.	Description	UNIT	Q'TY	Unit Rate (UGX)	AMOUNT (UGX)
11.1.42	(external surfaces)	m²	33.24		-
	Cement-sand screed (1:3) as described;				-
11.4.47	20mm cement:sand screed 1:3 Floor finish to the floor of the vaults and ramp, and finish smooth with a steel float using cement grout	m²	15.54		-
	PAINTING				_
11.4.48		m²	51		-
11.4.49		m²	31		-
	Semisolid Door as per drawing including paint	No	1		-
	Metallic bugler Window including paint	No	2		_
Total of one	e Guard house	. 10			0.0
	d to summary page (3 no.)				0.0
11.5	SCHEME EQUIPMENT				
11.5.1	Supply of motor bikes	Nr	2.00		-
11.5.2		Nr	5.00		-
11.5.3	Provide personal office computers for scheme use as per specification	Nr	4.00		-
11.5.4	specifications	Nr	2.00		-
11.5.5	Supply of silt stirrers (3 No)	Nr	3.00		-
11.5.6	Supply of Workshop equipment and tools in accordance with section specification	P.Sum	1.00	20,000,000	20,000,000.00
11.5.7	Provisional sum for technical training	P.Sum	1.00	25,000,000	25,000,000.00
11.5.8	•	Nr	4.00	90,000,000	
11.5.9	Contractor's handling charge on all provisional sums under 12.2.7 and 12.2.8 above	%	10.00		
Total carrie	d to summary page			•	
11.6	BOUNDARY AND IRRIGATION BLOCK MARK STONES, MEASURING STAFF GAUGE				
11.6.1	Provide for manufacture, installation and supervision of UNRA Standard boundary mark stones, engraved with project name as directed by the Engineer	Nr	180		-
11.6.2	Provide for manufacture, installation and supervision of Irrigation block mark stones, engraved with the block name as specified in the drawing as directed by the Engineer	Nr	85		-
11.6.3	Provide for manufacture, installation and supervision of Aluminium staff gauge with 4mm thickness specified in the drawing and as directed by the	Nr	76		-
Total carrie	ed to summary page				0.0

LL NO 12	SCHEME BUILDINGS	BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
12.1	OFFICE BLOCK				
	Earthwork & Masonry Foundation				
12.1.1	Strip top soil to an average depth of 200mm.	Sqm	320		
12.1.2		Oqiii	320		
12.1.2	trench to a depth not greater than 2.0 meters. The	Cum	160		
40.4.0	work includes dewatering, protection and all	0	070		
12.1.3		Cum	272		
12.1.4	Extra over for item 1.2 to 1.3for Excavation in soft	Cum	42		
12.1.5		Cum	42		
12.1.6		Cum	400		
	a distance not less than one kilometer.	Cum	400		
12.1.7	Fill and compact selected granular material for 95% of proctor density layer by layer and each compacted layer shall be 200mm thick.	Cum	170		
4040					
12.1.8	and sides and bottoms of excavation	sqm	175		
12.1.9	250 mm thick basaltic stone or equivalent hard core filling over the selected fill, compaced and blinded with crushed stones.	Sqm	175		
12.1.10	500mm thick Stone masonry Wall costruction	Cum	55		
	Concrete Work				
12.1.11	Cut, Place in position and tie deformed reinforcement bars as per the drawing and the minimum tensile yeilding strength of the reinforcement bars shall be 400MPA.	Kg	1750		
12.1.12	column, edge of slab etc,	Sqm	130		
12.1.13	100mm thick Class C-10 lean concrete over the hard core incl below foundation.	Sqm	233		
12.1.14	150mm thick Class C-25 Concrete in floor slab	Sqm	170		
12.1.15	RC concrete Class C-25 in beams and column	Cum	15.2		
12.1.16					
	damp proof membrane including 300mm laps	Sqm	200		
12.1.17	Bituminous felt damp proof course: 150mm wide, 200mm laps	lm	110		
	WALL				
12.1.18	Supply and Place 200mm thick HCB for External Wall, as shown in the drawing . The binding	Sqm	170		
12.1.19	Wall, as shown in the drawing . The binding	Sqm	110		
	material shall be cement sand mortar in the ratio of				
	Floor and Wall Finishing Work				
12.1.20	Two Coats of Plastering and one coat rendering or smooth finish to external wall as directed	Sqm	170		
12.1.21	Three coats of wall plastering to internal walls in smooth finish	Sqm	400		
12.1.22	Prepare surfaces: apply three Coats"Sadolin" or any approved Synthetic paint to externa wall	Sqm	170		
12.1.23	any approved silk vinyl paint to internal wall	Sqm	400		
12.1.24	approved water paint in smooth finish with all necessary works including fascia board.	Sqm	180		
12.1.25	thick cement screed	Sqm	170		
12.1.26	Supply & Fix in position for Terarazzo Tile Window Sill, Cross Sectional area of the tile is 250mmx25.	ml	19.7		

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10.4.07	Pavement & Drainage Ditch around the Building				-
12.1.27	Construction of 600mm wide pavement (splash				
	apron) around the building, the work shall include				
	excavation, 200mm selected material placing &				
	compaction, 250mm hard core above the selected	_			
	fill and 100mm thick C-15 concrete including BRC	Sqm	52		-
	A252 welded mesh in top. The work shall also				
	include smooth finishing work with 25mm thick				
	cement mortar screeding and construct drainage				
	ditch around the end of the pavement				
	Door , Widow and Roofing Works				-
	Door and Window				-
12.1.28	Supply and Fix in Position door, D2 (900 mm x 2800				
	mm) solid wodden or equivalent including frame,	No.	12		
	architrave and all necessary work as described in	INO.	12		
	the drawing and schedule and approved by the				
12.1.29	Supply and Fix in Position door, D3 (1000 mm x				
	2800 mm) solid wodden or equivalent including	No	2		
	frame, architrave and all necessary works as	No.	3		-
	described in the drawing and schedule and				
12.1.30	Supply and Fix in Position window, W1				
	(2530x1600mm) LTZ framed, grilled and glazed	NIa	40		
	with 4mm glass as described in the drawing and	No.	12		-
	schedule and approved by the Engineer.				
12.1.31	Rofing & Ceiling				-
12.1.32	Supply and fix roof truss for two block offices				
	constructed out of timber of main & horizontal rafter				
	6x2inch, diagonal 4x2inch and 70mmx50mm purlin				
	as per the drawing and the truss members shall be	LS			
	made well seasoned to avoid warping because of				
	unsatifactory seasoning time. The Work shall				
	include all necessary work to fix the truss and purlin				
12.1.33	Supply and fix 8mm thick chipwood ceiling including				
	50mmx40mm battens at a spacing of 600mm in both	Sqm	170		-
	directions.	- 4			
12.1.34	Supply and fix G-28, pre-painted galvanized iron				
	sheet roofing cover including fixing to the truss	Sqm	260		_
	members, ridges and valleys.	94			
12.1.35	Supply and Fix Timder Facia Board of Size				
	250x25mm including oil paint to prevent twisting and	m	90		-
12.1.36	Supply and fix Fix Gutter & Down Pipe for two office				
	blocks manufactured out of Gage -30 galvanized				
	sheet metal including all accessories and welding	LS			
	for fixing in position.				
Total carrie	ed to summary page			l	0.0
	a to cammany page				0.0
12.2	RESIDENTIAL BUILDING				
	Earthwork & Masonry Foundation				
12.2.1	Strip top soil to an average depth of 200mm.	Sqm	750		_
12.2.2					
12.2.2	trench to a depth not greater than 2.0 meters. The	Cum	200		_
	work includes dewatering, protection and all	Guiii	200		
12.2.3	Bulk Excavation in normal soil	Cum	260		_
12.2.4	Extra over for item 1.2 to 1.3for Excavation in soft	Cum	50		
12.2.5		Cum	50		
12.2.6					
12.2.0	a distance not less than one kilometer.	Cum	550		-
12.2.7	Fill and compact selected granular material for 95%				
12.2.1	of proctor density layer by layer and each	Cum	170		
	compacted layer shall be 200mm thick.	Juili	170]
12.2.8	Anti-termite treatment on tops of hardcore surfaces				
12.2.0	and sides and bottoms of excavation	sqm	175		-
	and sides and bottoms of excavation			l	

1000				T
12.2.9	250 mm thick basaltic stone or equivalent hard core	_		
	filling over the selected fill, compaced and blinded	Sqm	170	-
	with crushed stones.			
12.2.10	500mm thick Stone masonry Wall costruction	Cum	66	-
	Concrete Work			-
12.2.11	Cut, Place in position and tie deformed			
	reinforcement bars as per the drawing and the	Kg	2200	
	minimum tensile yeilding strength of the	Rg	2200	_
	reinforcement bars shall be 400MPA.			
12.2.12	Placing formwok for for grade beam, top tie beam,	Sqm	130	
	column, edge of slab etc,	Sqiii	130	- I
12.2.13	100mm thick Class C-10 lean concrete over the	Carro	170	
	hard core incl below foundation.	Sqm	170	- I
12.2.14	150mm thick Class C-25 Concrete in floor slab	Sqm	165	-
12.2.15	RC concrete Class C-25 in beams and column	Cum	18.5	-
12.2.16	Damp proof membrane of 500 gauge polythene	0	005	
	damp proof membrane including 300mm laps	Sqm	225	- I
12.2.17	Bituminous felt damp proof course: 150mm wide,	1	400	
	200mm laps	lm	130	-
	WALL			-
12.2.18	Supply and Place 200mm thick HCB for External			
	Wall, as shown in the drawing . The binding	Sqm	125	_
	material shall be cement sand mortar in the ratio of	0 q	0	
12.2.19	Supply and Place 150mm thick HCB for partion			
12.2.10	Wall, as shown in the drawing . The binding	Sqm	68	_
	material shall be cement sand mortar in the ratio of	Oqiii		
L	Floor and Wall Finishing Work			_
12.2.20	Two Coats of Plastering and one coat rendering or			
12.2.20	smooth finish to external wall as directed	Sqm	130	-
12.2.21	Three coats of wall plastering to internal walls in			
12.2.21	smooth finish	Sqm	270	-
12.2.22	Prepare surfaces: apply three Coats"Sadolin" or any			
12.2.22	approved Synthetic paint to externa wall	Sqm	130	-
12.2.23	Prepare surfaces: apply three Coats "Sadolin" or			
12.2.23	any approved silk vinyl paint to internal wall	Sqm	270	-
12.2.24	Three coats of ceiling paint "Sadolin" or any			
12.2.24	approved water paint in smooth finish with all	Cam	165	
	necessary works including fascia board .	Sqm	165	- I
10.0.05	PVC 3mm thick Tile floor finish layed over 48mm			
12.2.25	thick cement screed	Sqm	165	-
12.2.26		-		
12.2.20	Supply & Fix in position for Terarazzo Tile Window	ml	30	-
40.0.07	Sill, Cross Sectional area of the tile is 250mmx25.			
12.2.27	Provide and fix ceramic floor tile for toilets with all			
	necessary work. The ceramic floor tiles : bedded	Sqm	14	_
	and jointed in approved adhesive : pointed with	•		
40.000	approved coloured grout : to with all necessary work			
12.2.28	Provide and fix Non slip ceramic wall tile upto 1.5m			
	height for toilets. The ceramic floor tiles : bedded	Sqm	33	_
	and jointed in approved adhesive : pointed with	- 1		
	approved coloured grout : to with all necessary work			
	Walkway, Pavement & Drainage Ditch			-
12.2.29	Construction of 600mm wide pavement (splash			
	apron) around the building, the work shall include			
	excavation, 200mm selected material placing &			
	compaction, 250mm hard core above the selected			
	fill and 100mm thick C-15 concrete including BRC	Sqm	65	-
	A252 welded mesh in top. The work shall also			
	include smooth finishing work with 25mm thick			
	cement mortar screeding and construct drainage			
	ditch around the end of the pavement			
		-		

12.2.30	Construction of 1200mm widewalkway connecting the accomodations, the work shall include			
	excavation, 200mm selected material placing &			
	compaction, 250mm hard core above the selected			
	fill and 100mm thick C-15 concrete including 8mm	sqm	40	_
	reiforcement bar mesh at a spacing of 200mm c/c.			
	The work shall also include smooth finishing work			
	with 25mm thick cement mortar screeding and			
	construct drainage ditch at the side of the walkway			
12.2.31	Provide truss and supply and fix gauge-28			
	galvanised iron sheet roofing for walkway including	Sqm	40	_
	4x2inch rafterand 70mmx50mm purlin as shown in	Oqiii	40	
	the drawing& specification and directed by the			
10.000	Door , Widow and Roofing Works			-
12.2.32				
	mm) solid wodden or equivalent including frame,	No.	2	-
	architrave and all necessary works as described in			
12.2.33	the drawing and schedule and approved by the Supply and Fix in Position door, D2 (900 x 2800			
12.2.33	mm) solid wodden or equivalent including frame,			
	architrave and all necessary works as described in	No.	11	-
	the drawing and schedule and approved by the			
12.2.34	Supply and Fix in Position door, D4 (700x2800mm)			
]	solid wodden or equivalent including frame,	NI-	_	
	architrave and all necessary works as described in	No.	5	-
	the drawing and schedule and approved by the			
12.2.35	Supply and Fix in Position window, W3 (
	2000x1600mm) LTZ framed, grilled and glazed with	No.	11	-
	4mm glass as described in the drawing and			
12.2.36	, , ,			
	600x750mm) LTZ framed and glazed with 4mm	No.	5	-
	glass as described in the drawing and schedule.			
40.0.07	Roof and Ceiling			-
12.2.37	Supply and fix roof truss for two block offices			
	constructed out of timber of main & horizontal rafter 6x2inch, diagonal 4x2inch and 70mmx50mm purlin			
	as per the drawing and the truss members shall be	LS		
	made well seasoned to avoid warping because of	LO		
	unsatifactory seasoning time. The Work shall			
	include all necessary work to fix the truss and purlin			
12.2.38				
	50mmx40mm battens at a spacing of 600mm in both	Sqm	165	-
	directions.	<u> </u>		
12.2.39				
	sheet roofing cover including fixing to the truss	Sqm	280	-
	members, ridges and valleys.			
12.2.40		m	115	_
	250x25mm including oil paint to prevent twisting and	111	110	
12.2.41	Supply and fix Fix Gutter & Down Pipe for two office			
	blocks manufactured out of Gage -30 galvanized	LS		
	sheet metal including all accessories and welding	-		
Total carrie	for fixing in position.		L	0.0
Total Carrie	out to summary page			0.0
12.3	STORAGE BUILDING			
12.0	EARTHWORK			-
12.3.1	Site clearance of construction area	SM	4000	-
12.3.2	Exacavate to reduce levels average 200mm deep			
	to remove vegetable soil and cart away from site	СМ	2550	-
12.3.3		CN4	2460	
	remove vegetable soil and cart away from site	СМ	3160	 -
12.3.4	Excavate pit for 45 in No.base column footings (pad			
	foundation)not exceeding 1.50 metres deep from	CM	210	-
	reduced / ground level (slanting/ Vertical columns)			

12.3.5	Allow for keeping the whole of the excavation and				
	foundation free from rain, spring or underground	Item	1		-
	water and mud or silt by bailing, pumping or				
12.3.6	Approved anti termite treatement aplied to sides and	SM	2550		
	bottoms of all excavations,top of hardcore etc	SIVI	2550		-
12.3.7	Return, fill with murram around foundation footings				
	and under the slab well ram in layers (well	СМ	1050		
	compacted) not exceeding 230mm thick to receive	CIVI			-
	hardcore under a concrete slab				
12.3.8	Remove surplus excavated materials from site to	CM	000		
	where irected as per the regulations of the council.	СМ	200		-
12.3.9	200mm thick levelled compacted hardcore filling	SM	1700		-
12.3.10	50mm thick sand Blinding	SM	1700		-
12.3.11	G 1000 gauge microslip membrane (DPM) with	CM	1700		
	200mm laps	SM	1700		-
	Concrete				
12.3.12	Reinforcement Diameter 10 @c/c 20cm bothways	17	400		
	on floor slab	Kgs	400		-
12.3.13	150mm thick C-25 concrete floor slab	SM	1700		-
12.3.14	Concrete 5-10 blinding in pad foundation 75mm	SM	108		-
12.3.15	RC Concrete C-25 to foundation footing	CM	31		-
12.3.16	RC Concret C-25 to footing columns	CM	16.5		_
12.3.17	Concreting C-25 to grade beam	CM	25		
12.3.18	Sawn formwwork to footng, column, grade beam &				
12.0.10	edge of slb	Sqm	310		
12.3.19	Mild BS 4483 and High tensile steel BS 4464				
12.0.10	reinforcement bars with binding wire as described:				-
а	8mm	Kgs	750		_
b	10mm	Kgs	920		
c	14mm	Kgs	1100		_
d	16mm	Kgs	1400		_
3	SUPERSTRUCTURE	rtgo	1400		_
	STRUCTURAL WORKS				_
12.3.20	Framed structural steel work Comprising portal				
12.0.20	frames (columns & rafters), purlins, rafter bracings,				
	column bracings, cleader angles, 12mm diameter				
	antisag bars (2 per bay) including all fixtures				
	necessary for erection as per details given in the				
	drawing, instruction and approved by the Engineer				
	and as described below				
	a) 45 number IPE 400-section columns bolted to				
	the foundation using 16mm thick base plate				
	(500x350mm) with 4mm fillet weld all around column				
	and 4no soft 20mm foundation bolts	Sqm	1710		-
	b) IPE 330-section rafters cut to the required angles				
	on top and bottom and jointed with 2nos of 12mm				
	thick 350x130mm steel plates bolted with 8nos of				
	M20 G8-8bolts on webs per given detail and all fillet				
	welding shall be as mentioned.				
	c) C- purlin or 130mm x 50mm x 20mm x2mm (Ref.ZP 30) steel Zed-purlins bolted to top chord				
	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '				
	through 100x100x4mm L-cleats including all				
	necessary bolts and nuts to Structural Engineer's				
10.0.01	ROOFING				-
12.3.21	26 Gauge, Blue painted Super Eco profile roofing				
	sheets, fixed to Z-Purlins frame with and including				
	approved J-hook bolts,nuts and washers,fixed in	SM	2000		-
	accordance with the engineer's instructions and				
	drawings. The work includes placing Ridge caps, roof screws and all necessary fittings				
				I	i

12.3.22	Cladding Sheeting Comprising 26 gauge pre-			
	painted Super Eco profile sheets to sides and			
	gables with fiberglass wool, purlin top hats, self	Cam	1350	
	drilling screws, flashings and all fixtures necessary	Sqm	1350	-
	for erection. It also comprise of cladding rails, anti-			
	sag bars and including all fixtures necessary for			
12.3.23	Fascia boards 4m length (190mmx30mmx1mm)	LM	220	_
12.3.24	Supply and fix 8mm thick chipwood ceiling including			
12.0.2	50mmx40mm battens at a spacing of 600mm in both	Sqm	100	_
	directions.	Oqiii	100	
12.3.25	Provide Rainwater harvesting Comprising eaves			
12.3.23				
	gutters made from 1.5mm thick pre galvanized	LS		
	plates, PVC down pipes, gutter brackets and all			
40.0.00	fixtures necessary for erection			
12.3.26	Allow a sum for fibre Glass Translucent Sheets			
	comprising 1 sheet per slope per 2 bay in 1mm thick			
	fiberglass UV protected 3.5m long milky finish type			
	(Subject to slight tint variations) translucent sheets,			
	and all fixtures necessary for erection. Safety	LS		
	Frames under each translucent sheet, comprising			
	round bars welded together to fit under roofing			
	sheet profile to provide additional safety. The work			
	will be done only if instructed and approved by the			
12.3.27	Allow a sum of Roof Ventilator comprising		1	
	CYCLONE 600 Series (1 No. per 4 bays) near the			
	apex consisting of galvanized steel components	LS		
	including all fixtures necessary for erection			
L F	BLOCK WORK			_
12.3.28	230mm thick using solid block wall,mild steel laid to			
	form alternate courses of headers and	SM	500	_
	stretchers, laid on and incl. mortar ratio 1:3, Th	Civi	000	
12.3.29	150mm thick using solid block wall,mild steel laid to			
12.5.25	form alternate courses of headers and	SM	35	_
	stretchers,laid on and incl.mortar ratio 1:3, Th	Sivi	33	_
L	VALL FINISHES			
12.3.30	20mm thick 1:3 cement sand plaster on internal			_
12.5.50	walls (internal surfaces)	SM	610	-
12.3.31	20mm thick 1:3 cement sand plaster on external			
12.3.31	·	SM	500	-
40.0.00	walls (external surfaces)	CM	1700	
12.3.32	12mm cement sand (1:4) screeds to smooth	SM	1700	-
12.3.33	Prepare surfaces: apply three Coats"Sadolin" or any	SM	500	-
40.004	approved Synthetic paint to externa wall			
12.3.34	Prepare surfaces: apply three Coats "Sadolin" or	SM	610	-
1000	any approved silk vinyl paint to internal wall		-	
12.3.35	Three coats of ceiling paint "Sadolin" or any			
	approved water paint in smooth finish with all	SM	100	-
	necessary works including fascia board .			
12.3.36	Two Tier of of 200mm thick concrete louver vents	SM	80	-
	DOORS and WINDOWS			-
12.3.37	Supply and Fix in position fabricatel sliding steel			
	shutter door of 3000mm x 2500mm height for the			
1	main store. The work includes sliding frames and			
	fittings, hinges, necessary paints, steel shutter and	No	3	-
	all necessary fittings and materials to fix and erect			
1	the slidng gate and make it operational as per the			
[]	instruction and approval given by the Engineers			
12.3.38	Supply and Fix in Position door, D1 (900 mm x 2100		1	
1 = 13.00	mm) solid wodden or equivalent including frame,			
[]	architrave and all necessary works as described in	No	8	-
	the drawing and schedule and approved by the			
12.3.39	Supply and Fix in Position door, D2 (700 mm x 1000			
12.3.38	mm) door or equivalent including frame, architrave			
	and all necessary works as described in the drawing	No	4	-
	and schedule and approved by the Engineer.			
	and somedule and approved by the Engineer.		1	

12.3.40				
12.3.40	Supply and Fix in Position window, W1			
	(1800x1200mm) LTZ framed, grilled and glazed			
	with 4mm glass as described in the drawing and	No	1	-
	schedule and approved by the Engineer.			
40.0.44				
12.3.41	Supply and Fix in Position window, W2			
	(1250x1200mm) LTZ framed, grilled and glazed		4	_
	with 4mm glass as described in the drawing and			
	schedule and approved by the Engineer.			
12.3.42	Supply and Fix in Position window, W3			
	(600x1200mm) LTZ framed, grilled and glazed with	NI.		
	4mm glass as described in the drawing and	No	3	-
	schedule and approved by the Engineer.			
	WATER SUPPLY and SANITORY WORKS			
12.3.43				
12.0.40	plumbing system, sanitary fittings (four WC, three			
		LS		
	Handwash basin, two water points), all necessary	LS		
	plumbing works, connection to the water tank and all			
	necessary as directed and approved by the			
12.3.44				
	line. The work includes supply and fix four WC &			
	three Hand Wash basin, internal plumbing system,	LS		
	two water point, waste water connection, connection	LS		
	to the water tank and septic tank and all necessary			
1	works as directed and approved by the Engineer			
12.3.45				
12.0.40	2000lt capacity including inlet, outlet, float valve and			
		LS		
	connection to the main line and all necessary	LS		
	plumbing works and materials necessary as directed			
	and approved by the Engineer			
12.3.46	Supply all materials and construct one septic tank			
	according to drawing. Include for water proof			
	cement rendering, benching, fittings and	LS		
	smoothening of channels etc as specified and			
	directed on site. The work includes construction of			
	ELECTRICAL INSTALLATION			
12.3.47	Allow a sum for electrical installation. The work			
12.0.17	includes wiring, placing lightining fixtures, sockets,			
	switches, security lights, consumer units and all	LS		
	necessary electical fixtures and material to make the			
	light system operational as directed and approved			
12.3.48				
	Allow a sum for exetension of the power line to main	LS		
	government line	LS		
	government line GENERAL	LS		
12.3.49	government line GENERAL	LS		
12.3.49	government line GENERAL	LS		
12.3.49	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of	LS		
12.3.49	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to			
12.3.49	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch GI pipe posts spaced every 2.5m. The	LS		
12.3.49	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch GI pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel			
12.3.49	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch GI pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and			
	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch GI pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and gate as directed and approved by the Engineer.			
	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch GI pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and			0.0
Total carrie	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch GI pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and gate as directed and approved by the Engineer.			0.0
	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch GI pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and gate as directed and approved by the Engineer.			0.0
Total carrie	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch GI pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and gate as directed and approved by the Engineer. In the compound payement supply and erect Chain link fixed to 11/2inch GI pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and gate as directed and approved by the Engineer. COMPOUND WORK Compound Payement	LS		0.0
Total carrie 12.4 12.4.1	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch GI pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and gate as directed and approved by the Engineer. ed to summary page COMPOUND WORK Compound Pavement Strip top soil to an average depth of 200mm.		2250	0.0
Total carrie	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch GI pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and gate as directed and approved by the Engineer. Ed to summary page COMPOUND WORK Compound Pavement Strip top soil to an average depth of 200mm. Bulk Excavation in normal soil to receive murrum	LS		0.0
Total carrie 12.4 12.4.1	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch GI pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and gate as directed and approved by the Engineer. ed to summary page COMPOUND WORK Compound Pavement Strip top soil to an average depth of 200mm.	LS	2250 470	0.0
Total carrie 12.4 12.4.1	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch GI pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and gate as directed and approved by the Engineer. Ed to summary page COMPOUND WORK Compound Pavement Strip top soil to an average depth of 200mm. Bulk Excavation in normal soil to receive murrum and sand for paver	LS Sqm Cum	470	0.0
12.4 12.4.1 12.4.2	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch GI pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and gate as directed and approved by the Engineer. Ed to summary page COMPOUND WORK Compound Pavement Strip top soil to an average depth of 200mm. Bulk Excavation in normal soil to receive murrum and sand for paver Fill and compact selected granular material for 95%	LS		0.0
12.4 12.4.1 12.4.2 12.4.3	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch GI pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and gate as directed and approved by the Engineer. Ed to summary page COMPOUND WORK Compound Pavement Strip top soil to an average depth of 200mm. Bulk Excavation in normal soil to receive murrum and sand for paver Fill and compact selected granular material for 95% of proctor density.	Sqm Cum Sqm	470 2200	0.0
12.4 12.4.1 12.4.2 12.4.3	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch GI pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and gate as directed and approved by the Engineer. Ed to summary page COMPOUND WORK Compound Pavement Strip top soil to an average depth of 200mm. Bulk Excavation in normal soil to receive murrum and sand for paver Fill and compact selected granular material for 95% of proctor density. Fill above selected material sand to receive pavers	Sqm Cum Sqm Sqm	470 2200 2200	
12.4 12.4.1 12.4.2 12.4.3	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch Gl pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and gate as directed and approved by the Engineer. ed to summary page COMPOUND WORK Compound Pavement Strip top soil to an average depth of 200mm. Bulk Excavation in normal soil to receive murrum and sand for paver Fill and compact selected granular material for 95% of proctor density. Fill above selected material sand to receive pavers Place pavers of 6cm thick including curbstoneas	Sqm Cum Sqm	470 2200	
12.4 12.4.1 12.4.2 12.4.3 12.4.4 12.4.5	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch Gl pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and gate as directed and approved by the Engineer. Ed to summary page COMPOUND WORK Compound Pavement Strip top soil to an average depth of 200mm. Bulk Excavation in normal soil to receive murrum and sand for paver Fill and compact selected granular material for 95% of proctor density. Fill above selected material sand to receive pavers Place pavers of 6cm thick including curbstoneas directed and aproved by the Engineer in charge	Sqm Cum Sqm Sqm	470 2200 2200	
12.4 12.4.1 12.4.2 12.4.3	government line GENERAL Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch Gl pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and gate as directed and approved by the Engineer. Ed to summary page COMPOUND WORK Compound Pavement Strip top soil to an average depth of 200mm. Bulk Excavation in normal soil to receive murrum and sand for paver Fill and compact selected granular material for 95% of proctor density. Fill above selected material sand to receive pavers Place pavers of 6cm thick including curbstoneas directed and aproved by the Engineer in charge	Sqm Cum Sqm Sqm	470 2200 2200	

	Fence work and Gate				_
12.4.7	Supply and erect Chain link of gauge 10 pitch size				
	50x50mm fencing consists of 2.5 mm barbed on top				
	of the chain link fixed to 11/2inch GI pipe posts				
	spaced every 2.5m. The wor includes supply and				
	erect of 11/2inch GI pipe post anchored in concrete	m	320		_
	at every 2.5m and all necessary material to fix	•••	020		
	chainlink, GI pipe post and babedwire as per the				
	drawing and directed by the Engineer. It includes				
	also intermediate, corner and bracing pipes as				
12.4.8	Supply and fix gates of two leaves 7m clear opening				
12.4.0	between and including 300mmx300mm reinforced				
	concrete posts. Gates to be fabricated from				
	galvanised tubular iron to form frames 2.3m high				
	with spike 50mmx50mm weld mesh and painted with	No	1		_
	approved paint extensions 300mm high on top.	140	'		
	Whole to be covered (Gate to be provided with				
	approved catch and fastenings bolts for holding in				
	open position and supplied with padlock and keys.)				
12.4.9	Supply and construct 1m width pedestrian steel gate				
12.4.9	between the fence of Office and accomodation area	No	1		_
	as approved and directed by the Engineer in charge	140	']
	Water Tank Stand				-
12.4.10	Supply and installation of steel structure for water				
	tank of 20,000lt capacity stand as per the drawing.				
	Including all required steel plates and bolts for				
	anchorage to foundations or in the structure, weld				
	works, materials and equipment for the completion	NI.	_		
	in all respect.Including installation the two 10,000lt	No	1		-
	capacity water tank and fixing outlet, inlet aand				
	overflow. Including all necesary stairs, security				
	handrails and platforms as per the drawing and				
	instructed by the Engineer in charge				
12.4.11	Providing, mixing, laying, vibrating and curing				
	reinforced concrete (25N/mm2) for foundations				
	(column 0.2x0.3*1m, footing1x0.5x0.3m & Ground				
	beam 0.3x0.2m) for water tank structure including	Cum	2.84		-
	earthwok. Including all necessary materials and				
	equipment for the completion in all respect as per				
	the drawing and directed by the Engineer in charge				
	Septic Tank				-
12.4.12	Supply and construct 10,500lt capacity septic tank				
	as per the drawing specification and directed by the				
	Engineer in charge. The work includes earthwork,				
	concrete work, cutting and placing reinforcement,				
	formwork for the work, construction of manholes and				
	cover. Including construction of soak pit & drain pipe	LS			
	trenches. including steel plates and bolts for				
	manhole and other work if need be, weld works,				
	materials and equipment for the completion in all				
	respect, and all necessary works as per the drawing				
L	and instructed by the Engineer in charge Toilet at Block E				
12.4.13	Construct four toilet rooms at block E as per the				-
12.4.13	drawing and instructed & directed by the Engineer.				
	The work includes necessary earth work,				
	Foundation masonry wall, Grade beam, hardcore,	LS			
	slab, wall, 3 coat of plastering, 3 coat of painting,				
	ceiling, Roof work, and all necessary work as per				
12.4.14	Provide and fix ceramic floor tile for toilets with all				
12.7.14	necessary work. The ceramic floor tiles: bedded				
	and jointed in approved adhesive : pointed with	Sqm	20.2		-
	approved coloured grout : to with all necessary work				
ı	approvou coloureu grout . to with all hecessary WOIK		ı	I.	

12.4.15	·					
	height for toilets. The ceramic floor tiles : bedded	Sqm	46		_	
	and jointed in approved adhesive : pointed with	Oqm	-10			
	approved coloured grout : to with all necessary work					
	General work				-	
12.4.16	117					
	the compound. The work includes preparing the					
	green area so that to make ready for planting grass,	LS				
	flowers, trees and all necessary plants as directed					
	and approved by the Engineer.					
12.4.17	Prepare and construct parking area as per the	- 0				
	drawing and directed and approved by the Engineer	LS				
Total carrie	ed to summary page				0.0	
12.5	WATER SUPPLY AND SANITARY					
	Water Supply					
12.5.1	Supply, install, connect, test and commission set to					
	work the following all as described in the	P.SUM	1	100,000,000	100,000,000	
	Specifications and Drawings.					
12.5.2	Carry out bore hole siting ,Mobilise drilling					
	equipment, personel and materials to and from site,					
	Borehole Drilling and installation of 5" casings to	50.04		4=0.000.000	.=	
	the the bottom of 60m also perform test pumping	P.SUM	1	150,000,000	150,000,000	
	48hrs + 2hr step tests Supply and installation 5"					
	pedestal plus a motorized pump platform					
12.5.3						
12.0.0	drawings; include all earthwork, building work,	LS	1			
	concrete works, plumbing, drains e.t.c as detailed.					
12.5.4						
12.5.4	required out put of Q = 10m3/day. and H=100m,	Nr	1			
	complete with dry running protection.	INI	'			
12.5.5						
12.5.5	10m3/day. and H=100m.	Nr	1			
12.5.6						
12.5.0		Nr	10			
12.5.7	voltage 34 – 38V, current 8-9 Amps SOLAR PANEL MOUNTING GALVANIZED					
12.5.7			40			
	STRUCTURE complete with Metallic structures and	LS	10			
40.5.0	civil platforms, 3 m off the ground for solar panels.					
12.5.8						
	75Wp,panel, 5Amp Regulator, 55AH Battery, 3LED	LS	1			
	Lights, Battery Box, Panel mount frame, light					
10.50	fixtures and cabling and accessories					
12.5.9		m	20			
12.5.10		nr	2			
12.5.11	0.75mm2 ELECTRODE CABLE	m	20			
12.5.12	2" GI Pipe	m	10			
12.5.13	· · · · · · · · · · · · · · · · · · ·					
	mat, copper clamp, concrete earth pit & conductivity	LS	1			
	improvement materials)					
12.5.14						
	INSTALLATION: cable tray Trunking about 5m,	LS	1			
	6mm2 Underground (U/G) cable 40m includes all					
	electricals for generator installations					
12.5.15						
	GI Tees, 1 No. 2"water meter (dry type), 3 No.					
	2"HDPE adapters, 1no. 2"Air valve, 3no. 2"Gl	LS	1			
	unions, 2 no. Global valve, 1 no.1/2" pressure					
	gauge, 1 no. pressure sensor complete with switch.					
12.5.16						
	of size 25mm for a layer of thickness 50mm placed	. ~ ~ ~	450			
	on top of gauge 1000dpm within the area covered	sqm	150			
	by solar array.					
	Internal Plumbing					
	· · · · · · · · · · · · · · · · · · ·		•	<u> </u>		

12.5.17	Supply and instal all necessary pipe works for				
	accomodation block, canten kitchen & toilet and				
	toilet at block E. All pipe work shall be PPR PN 20,				
	all diameters below are internal pipe works shall be				
	complete with fittings such as bends elbows, tees,				
	gate valve, union etc. and all accessories and shall				
	be inclusive of all builder's work.				
12.5.18	1/2inch GI pipe or PPR cold water Pipe work	m	100		
12.5.19	3/4inch GI pipe or PPR cold water Pipe work	m	75		-
	External Plumbing				-
12.5.20					
	connect to the internal plumbing line. All pipe work				
	shall be PPR diameters of 3/4inch or 1inch as				
	instructed by th Engineer. All external pipe works	m	200		
	shall be complete with fittings such as bends	•••	200		
	elbows, tees, gate valve, union etc. and all				
	accessories and shall be inclusive of all builder's				
12.5.21	HDPE or other approved pipe PN16 water supply				
12.5.21	line from government water main complete up to the	LS			
		LS			
40 F 00	water tank with all accessories, fittings.				
12.5.22	Supply line of 3/4inch or 1inch as approved by the		400		
	Engineer from the water tank to the required places	m	100		-
	(kitchen, toilets, garden, at necessary points)				
12.5.23	Water points around the compound including taps,		_		
	gatevalves and all necessary works as approved by	No	5		-
	the Engineer				
	Water Tank				
12.5.24	Supply and Install two10,000 litre PVC tank, as				
	CRESTANK or equal approved, complete with tank				
	cover, 150mm ball valve for 25mm inlet, 50mm				
	overflow, 50mm wash out with sluice valve,	LS			
	mounted on stell water tank stand complete with all				
	accessories. The work includes connecting the two				
	tanks and all necessary to make the water tanks				
	Waste Line				
	Supply and Fix PVC pipe lines for sewarage				
	disposal system from toilet and bath rooms to septic				
	tank incuding excavation, backfilling, connecting				
	manholes and all necessary fixtures i.e tee, y-				
	branch elbow, union etc				
	110mm heavy duty PVC soil waste pipe in ground to				
	manholes.				
12.5.25	50mm PVC .	m	100		
12.5.26		m	35		
12.5.27	Sanitory Fittings		1 33		
12.5.28			1		
12.5.20	including all accessories and fittings	No	13		-
12.5.29	Supply & fix flush type ceramic WC. Incuding all		1		
12.5.29	accessories & fittings	No	13		-
12.5.30	White enamelled fireclay shower tray		+	1	+
12.5.30					
]	800x780x110mm as TWYFORDS CALYPSO 2 800	NI.			
	complete with chrome plated shower pipe concealed	No	9		-
	in wall complete with 100mm diameter fixed shower				
40	head , control valve and bib tap and complete with		.		
12.5.31	Toilet roll holder complete with fixing to the wall.	No	13		-
12.5.32	6mm glass plate mirror size 610x475mm with	No	5		
	bevelled edges complete.				
12.5.33		No	4		_
	bevelled edges complete.	140			
12.5.34	Kitchen Sink double bowl single drain stainless steel				
	for mounting in worktop, complete with bottle trap,	No	2		-
[bib tap and all accessories.				
12.5.35		No	9		

12.6.37 Contractor's handling charge on all provisional sums under tiems 12.5.1 and 12.5.2 above 12.6 ELECTRICAL WORK 12.6.1 Supply, install, connect, test and commission set to work the following all as described in the Specifications and Drawings. 12.6.2 Supply, install, connect, test and commission Solar lighting set for the entire administration and accommodation area Metal cased with castles with tockable hinged door, 4 - Way SPN, MCB type flush mounted Consumer Unit with 10.0A DP integral Main Isolator, busbar, Neutral and Earth Terminal Blocks, complete with ten out going Modern and Earth Terminal Blocks, complete with ten out going Modern and Earth Terminal Blocks, complete with ten out going Modern and Earth Terminal Blocks, complete with terminating logs, glands and in ducts, complete with terminating logs, glands and if this part of the separative consumer unit using 3 x 1.5 mm² PVC/BWAPVC Copper cables from Modern American September 20 consumer unit using 3 x 1.5 mm² PVC/BWAPVC Countains as been in layout drawings and with all necessary work. Conduit to be used colling should be floxible and the one running along wall should be rigid type and connealed PVC conduit as shown in layout drawings and with all necessary work. Conduit to be used should be floxible and the new running along wall should be rigid type and connealed. For the following switches 12.6.6 Supply and installation of 14 vt 14 vt 15 fluorescent lamp fitting with parabolic mirror louver and conduit within the ceiling should be floxible and the one running along wall should be floxible and the one running along with all necessary to fix the switch. Conduit to be used should be PVC SEmm2 and conduit within the ceiling should be floxible and the one running along wall should be floxible and the one running along wall should be floxible and the one running along wall should be floxible and the one running along wall should be floxible and the one running along conduit to the used should be floxible and the one running along conduit to	12.5.36	Soap dish	No	9		-
Total carried to summary page 12.8 ELECTRICAL WORK 12.6.1 Supply, install, connect, test and commission set to with the following all as described in the work the following t			-			
12.6.1 Supply, install, connect, test and commission set to work the following all as described in the Spacifications and Drawings. P.SUM 1 50,000,000 50,000,000 50,000,000 12.6.2 Supply, install, connect, test and commission Solar lighting set for the entire administration and accommodation area 12.6.3 Metal cased with lockable hinged door, 4 - Way SPN, MCB type flush mounted Consumer Unit with 100A DP integral Main Isolator, busbar, Neutral and Earth Terminal Blocks, complete with terminal gloss, glands and after the consumer unit ofeach block, lidir in ducts, complete with terminal plus, glands and all fittings and accessories (Route length). Wring and Installation of light point, from the respective consumer unit using 3 x 1.5 mm² PVC/PV/CIC cabel earns through securely fixed concealed PVC conduit as shown in layout drawings and with all necessary work. Conduit to be used should be PVC 25mm2 and conduit within the ceiling should be flexible and the one running along wall should be rigid type and concealed. 12.6.6 Supply and installation of sixth outet fixed on wall, wired in ring circuit from the respective Consumer Unit using 3 x 1.5 mm² PVC/PVC/CIC cable as shown in layout drawings and with all necessary work. Conduit to be used should be PVC 25mm2 and conduit within the ceiling should be rigid type and concealed. 12.6.6 Galing light of 40W No. 20 .		under items 12.5.1 and 12.5.2 above	%	10.00		
12.6.1 Supply, install, connect, test and commission set to work the following all as described in the Specifications and Drawings. 12.6.2 Supply, install, connect, test and commission Solar lighting set for the entire administration and accommodation area 12.6.3 Metal cased with lockable hinged door, 4 - Way SpN, MS by test be mounted Consumer Unit with 100A DP integral Main Isolator, busbar, Neutral and Earth Terminal Blocks. complete with ten out going MCB's as per the drawing all as to L & T or equal and Earth Terminal Blocks. complete with ten out going MCB's as per the drawing all as to L & T or equal and terminal fittings and accessories (Route length). 12.6.4 3 core x 16mm² PVC/BWA/PVC copper cables from Meter box to the Consumer unit deach block, lidid in ducts, complete with terminaling lugs, glands and all fittings and accessories (Route length). 12.6.5 Wiring and installation of light point, from the respective consumer unit using 3 x 1.5 mm² PVC/PVC/CU cable drawn through securely fixed concelled PC conduit as shown in layout drawings and with all necessary work. Conduit within the ceiling should be flexible and the one running along wall should be rought parabolic mirror louver 12.6.6 Supply and installation of 4 x 14 W T5 fluorescent lamp fitting with parabolic mirror louver 12.6.7 Ceiling light of 40W Supply and installation of switch outlet fixed on wall, wired in ring circuit from the respective Consumer Unit using 3 x 1.5 mm² PVC/PVC/Cu cable as shown in layout drawing with all necessary to fix the switch. Conduit to be used should be PVC 25mm2 and conduit within the ceiling should be figid type and concelled. For the following switches 12.6.10 6A 1 gang 1 way moulded switch as MK or equal approved. 12.6.11 6A 1 gang 1 way moulded switch as MK or equal approved. 12.6.12 6A 2 gang 1 way moulded switch as MK or equal approved. 12.6.13 Supply and installation of socket outlet fixed on wall, wired in ring circuit from the respective Consumer Unit using 3 x 2.5 mm² PVC/PVC/Cu cable as sh	Total carrie	d to summary page		•		
12.6.1 Supply, install, connect, test and commission set to work the following all as described in the Specifications and Drawings. 12.6.2 Supply, install, connect, test and commission Solar lighting set for the entire administration and accommodation area 12.6.3 Metal cased with lockable hinged door, 4 - Way SpN, MS by test be mounted Consumer Unit with 100A DP integral Main Isolator, busbar, Neutral and Earth Terminal Blocks. complete with ten out going MCB's as per the drawing all as to L & T or equal and Earth Terminal Blocks. complete with ten out going MCB's as per the drawing all as to L & T or equal and terminal fittings and accessories (Route length). 12.6.4 3 core x 16mm² PVC/BWA/PVC copper cables from Meter box to the Consumer unit deach block, lidid in ducts, complete with terminaling lugs, glands and all fittings and accessories (Route length). 12.6.5 Wiring and installation of light point, from the respective consumer unit using 3 x 1.5 mm² PVC/PVC/CU cable drawn through securely fixed concelled PC conduit as shown in layout drawings and with all necessary work. Conduit within the ceiling should be flexible and the one running along wall should be rought parabolic mirror louver 12.6.6 Supply and installation of 4 x 14 W T5 fluorescent lamp fitting with parabolic mirror louver 12.6.7 Ceiling light of 40W Supply and installation of switch outlet fixed on wall, wired in ring circuit from the respective Consumer Unit using 3 x 1.5 mm² PVC/PVC/Cu cable as shown in layout drawing with all necessary to fix the switch. Conduit to be used should be PVC 25mm2 and conduit within the ceiling should be figid type and concelled. For the following switches 12.6.10 6A 1 gang 1 way moulded switch as MK or equal approved. 12.6.11 6A 1 gang 1 way moulded switch as MK or equal approved. 12.6.12 6A 2 gang 1 way moulded switch as MK or equal approved. 12.6.13 Supply and installation of socket outlet fixed on wall, wired in ring circuit from the respective Consumer Unit using 3 x 2.5 mm² PVC/PVC/Cu cable as sh						
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12.6.2 Supply, install, connect test and commission Solar lighting set for the entire administration and accommodation area accommodation acco	12.6.1		D CLIM	_	FO 000 000	E0 000 000
12.6.2 Supply, install, connect, test and commission Solar lighting set for the entire administration and accommodation area with lockable hinged door, 4 - Way SPN, MCB type flush mounted Consumer Unit with 100A DP integral Main Isolator, busbar, Neutral and Earth Terminal Blocks, complete with terminal tooks, complete with terminal MCB as a per the drawing all as to L. 8 T or equal 3 core x 16mm? PVCSWNPVC copper cables from Meter box to the Consumer unit of deach block, laid in ducts, complete with terminaling lugs, glands and all fittings and accessories (Route length). 12.6.5 Wring and Installation of light point, from the respective consumer unit using 3 x 1.5 mm² PVC/PV/CVC cable draw through securely fixed concealed PVC conduit to be used should be PVC 25mm2 and conduit within the ceiling should be fixed by and the consumer unit using 3 x 1.4 w T 5 fluorescent lamp fitting with parabolic mirror louver 12.6.6 Supply and installation of 4 x 14 w T 5 fluorescent lamp fitting with parabolic mirror louver 12.6.7 Ceiling light of 40W 12.6.8 Supply and installation of switch outlet fixed on wall, writed in ring circuit from the respective Consumer Unit using 3 x 1.5 mm² PVC/PVC/Cu cable as shown in layout drawing with line cessary to fix the switch. Conduit to be used should be PVC 25mm2 and conduit within the ceiling should be flushble and the one running along wall should be rigid type and concealed. For the following switches 12.6.9 6A 1 gang 2 way moulded switch as MK or equal approved. 12.6.10 6A 2 gang 1 way moulded switch as MK or equal approved. 12.6.11 6A 1 gang 1 way moulded switch as MK or equal approved. 12.6.12 6A 2 gang 1 way moulded switch as MK or equal approved. 12.6.13 Supply and Installation of socket outlet fixed on wall, wired in ring circuit from the respective Consumer Unit using 3 x 2.5 mm² PVC/PVC/Cu cable as should be flushble and the one running along wall should be flushble and the one running along wall should be flushble and the one running along wall should be flushble an			P.SUM	1	50,000,000	50,000,000
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12.6.3 Metal cased with lockable hinged door, 4 - Way, SPN, MCB type flush mounted Consumer Unit with 100A DP Integral Main Insolator, busbar, Neutral and Earth Terminal Blocks, complete with ternout going MCBs as per the drawing all as to L. & T or equal 3 core x 16mm² PVC/SWAPVC copper cables from Meter box to the Consumer unit ofeach block, laid in ducts, complete with terminating lugs, glands and all fittings and accessories (Route length). 12.6.5 Wiring and Installation of light point, from the respective consumer unit using 3 x 1.5 mm² PVC/PVC/CU cable drawn through securely fixed concealed PVC conduit as shown in layout drawings and with all necessary work. Conduit to be used should be PVC 25mm2 and concalut within the ceiling should be flexible and the one running along wall should be rigid type and concealed. 12.6.6 Supply and installation of 4 x 14 W T5 fluorescent lamp fitting with parabolic mirror louver 12.6.7 Ceiling light of 40W 12.6.8 Supply and installation of switch outlet fixed on wall, wired in ring circuit from the respective Consumer Unit using 3 x 1.5 mm² PVC/PVC/Cu cable as shown in layout drawing with all necessary to fix the switch. Conduit to be used should be PVC 25mm2 and conduit within the ceiling should be flushible and the one running along wall should be rigid type and concealed. For the following switches 12.6.9 6A 1 gang 2 way moulded switch as MK or equal approved. 12.6.10 6A 2 gang 1 way moulded switch as MK or equal approved. 12.6.11 6A 1 gang 1 way moulded switch as MK or equal approved. 12.6.12 GA 2 gang 1 way moulded switch as MK or equal approved. 12.6.13 Supply and Installation of socket outlet fixed on wall, wired in ring circuit from the respective Consumer Unit using 3 x 2.5 mm² PVC/PVC/Cu cable as should be flushed and the one running along wall should be flushed and the one running along will should be flushed and the one running along will should be flushed and the one running along will should be flushed and the one running along will should be flushed	12.0.2		D CLIM	1	15 000 000	60,000,000
12.6.3 Metal cased with lockable hinged door, 4 - Way SPN, MCB bype flush mounted Consumer Unit with 100A DP integral Main Isolator, busbar, Neutral and Earth Terminal Blocks, complete with ten out going MCBs as per the drawing all as to L. & To re qual 12.6.4 3 core x 16mm² PVC/SWA/PVC copper cables from Mcter box to the Consumer unit ofacab block, laid in ducts, complete with terminating lugs, glands and all fittings and accessories (Route length). 12.6.5 Wiring and Installation of light point, from the respective consumer unit using 3 x 1.5 mm² PVC/PVC/CU cable drawn through securely fixed concealed PVC conduit as shown in layout drawings and with all necessary work. Conduit to be used should be PVC 25mm2 and conduit within the celling should be fixed by and concealed. 12.6.6 Supply and installation of \$x 14 W TS fluorescent lamp fitting with parabolic mirror louver 12.6.7 Ceiling light of 40W 12.6.8 Supply and installation of switch outlet fixed on wall, wired in ring circuit from the respective Consumer Unit using 3 x 1.5 mm² PVC/PVC/CU cable as shown in layout drawing with all necessary to fix the switch. Conduit to be used should be PVC 25mm2 and conduit within the ceiling should be flight byea and conduit within the ceiling should be flight byea and conduit within the ceiling should be flight byea and concealed. For the following switches 12.6.9 6A 1 gang 2 way moulded switch as MK or equal approved. 12.6.10 6A 2 gang 1 way moulded switch as MK or equal approved. 12.6.11 Supply and Installation of socket outlet fixed on wall, wired in ring circuit from the respective Consumer Unit using 3 x 2.5 mm² PVC/PVC/Cu cable as shown in layout drawing with all necessary to fix the socket drawngs. Conduit to be used should be PvC 25mm2 and conduit within the ceiling should be flexible as shown in layout drawing with all necessary to fix the socket drawngs. Conduit to be used should be PvC 25mm2 and conduit within the ceiling should be flexible and the one running along wall should be flexible and the one ru			F.30W	-	13,000,000	00,000,000
SPN, MCB type flush mounted Consumer Unit with 100A DP integral Main Isolator, busbar, Neutral and Earth Terminal Blocks, complete with ten out going MCB's as per the drawing all as to L. & T or equal 3 core x 16mm² PVC/SWA/PVC copper cables from Meter box to the Consumer unit ofleach block, laid in ducts, complete with terminating lugs, glands and all fittings and accessories (Route length). 12.6.5 Wirring and Installation of light point, from the respective consumer unit using 3 x 1.5 mm² PVC/PVC/ICU cable drawn through securely fixed concealed PVC conduit as shown in layout drawings and with all necessary work. Conduit to be used should be PVC 25mm2 and concealed. 12.6.6 Supply and installation of 4x 14 W T5 fluorescent lamp fitting with parabolic mirror louver 12.6.7 Ceiling light of 40W 12.6.8 Supply and Installation of switch outlet fixed on wall, wired in ring circuit from the respective Consumer Unit using 3 x 1.5 mm² PVC/PVC/Cu cable as shown in layout drawing with all necessary to fix the switch. Conduit to be used should be PVC 25mm2 and conduit within the ceiling should be flexible and the one running along wall should be switch. Should be field type and concealed. For the following switches 12.6.9 6A 1 gang 2 way moulded switch as MK or equal approved. 12.6.10 6A 2 gang 1 way moulded switch as MK or equal approved. Policy approved No. 20 approved	1263					
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12.6.4 3 core x 16mm² PVC/SWAPVC copper cables from Meter box to the Consumer unit ofeach block, laid in ducts, complete with terminating lugs, glands and all fittings and accessories (Route length). 12.6.5 Wiring and Installation of light point, from the respective consumer unit using 3 x 1.5 mm² PVC/PVC/CU cable drawn through securely fixed concealed PVC conduit as shown in layout drawings and with all necessary work. Conduit to be used should be PVC 25mm2 and conduit within the celling should be fixed by 4 x 14 W T5 fluorescent lamp fitting with parabolic mirror louver 12.6.6 Supply and installation of switch outlet fixed on wall, wired in ring circuit from the respective Consumer Unit using 3 x 1.5 mm² PVC/PVC/CU cable as shown in layout drawing with all necessary to fix the switch. Conduit to be used should be PVC 25mm2 and conduit within the celling should be fixelible and the one running along wall sho						
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Meter box to the Consumer unit ofeach block, laid in ducts, complete with terminating lugs, glands and all fittings and accessories (Route length). 12.6.5 Wiring and Installation of light point, from the respective consumer unit using 3 x -1.5 mm² PVC/PVC/CU cable as shown in layout drawings and with all necessary work. Conduit to be used should be PVC 25mm2 and conduit within the ceiling should be flexible and the one running along wall should be flexible and the one running along wall should be flexible and the one running along wall should be flexible and the one running along wall should be flexible and the one running along wall should be flexible and the one running along wall should be flexible and the one running along wall should be flexible and the one running along wall should be PVC 25mm2 and conduit within the ceiling should be flexible and the one running along wall should be rigid type and concealed. For the following switch as MK or equal approved. 12.6.9 6A 1 gang 2 way moulded switch as MK or equal approved. 12.6.11 6A 1 gang 1 way moulded switch as MK or equal approved. 12.6.12 6A 2 gang 1 way moulded switch as MK or equal approved. 12.6.13 Supply and Installation of socket outlet fixed on wall, wired in ring circuit from the respective Consumer Unit using 3 x 2.5 mm² PVC/PVC/Cu cable as shown in layout drawing with all necessary to fix the socket drawings. Conduit to be used should be PvC 25mm2 and conduit to be used should be PvC 25mm2 and conduit to be used should be PvC 25mm2 and conduit to be used should be PvC 25mm2 and conduit within the ceiling should be flexible and the one running along wall should be pvC 25mm2 and concealed. For the following socket 12.6.14 13A 1gang socket outlet as MK or equal complete with all accessories on walls or Trunking. 12.6.15 Intermet/Telephone points in 25mm PvC conduits	12.6.4					
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