NA	AMALU IRRIGATION SCHEME INFRASTRUCTURE AND F	ACILITIES
	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	•

NAMALU 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 CANAL				
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	-			
	Total, Main Canal	-			
4	SECONDARY CANALS				
4.1	Lined Canal	-			
4.2	Structures and associated works				
4.2.1	'	-			
4.2.2	Cross and Head regulator structures	-			
4.2.3	, ,	-			
	Total, Secondary Canals	-			
5	TERTIARY CANALS				
5.1	Unlined Canal	-			
5.2	Structures and Associated works				
5.2.1	Turnout structures	-			
5.2.2	Drop structures	-			
	Total, Tertiary Canals	-			
6	SECONDARY DRAIN				
6.1	Unlined drain	-			
6.2	Structures and associated works				
6.2.1	·	-			
6.2.2	Outfall Structures	-			

NA	NAMALU IRRIGATION SCHEME INFRASTRUCTURE AND FACILITIES				
	BILL SUMMARY				
6.2.3	Pipe Culvert Structures	-			
	Total, Secondary Drain	-			

NA	MALU 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	-
8	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	-
9	STEEL WORK/HYDRO MECHANICAL GATES	
9.1	Regulator Outlet Gates	-
9.2	Main Canal Gates	-
9.3	Secondary-1 Gates	-
9.4	Secondary-2 Gates	-
9.5	Secondary-3 Gates	-
9.6	Secondary-4 Gates	-
9.7	Secondary-5 Gates	-
9.8	Secondary-6 Gates	-
9.90	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	
	Main and Secondary Canal Road Pipe Culvert Structures	
10.2 10.3	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads	
10.2 10.3	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES	
10.2 10.3 11 11.1	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES Livestock Watering (6 no.)	
10.2 10.3 11 11.1 11.2	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES Livestock Watering (6 no.) Sanitation Facility (25 no.)	
10.2 10.3 11 11.1 11.2 11.3	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES Livestock Watering (6 no.) Sanitation Facility (25 no.) Farm Shed (30 no.)	-
10.2 10.3 11 11.1 11.2 11.3 11.4	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES Livestock Watering (6 no.) Sanitation Facility (25 no.) Farm Shed (30 no.) Guard House (3 no.)	
10.2 10.3 11 11.1 11.2 11.3 11.4 11.5	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES Livestock Watering (6 no.) Sanitation Facility (25 no.) Farm Shed (30 no.) Guard House (3 no.) Scheme equipment	
10.2 10.3 11 11.1 11.2 11.3 11.4	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES Livestock Watering (6 no.) Sanitation Facility (25 no.) Farm Shed (30 no.) Guard House (3 no.) Scheme equipment Boundary and Irrigation Mark Stones, Staff Gauge	-
10.2 10.3 11 11.1 11.2 11.3 11.4 11.5 11.6	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES Livestock Watering (6 no.) Sanitation Facility (25 no.) Farm Shed (30 no.) Guard House (3 no.) Scheme equipment Boundary and Irrigation Mark Stones, Staff Gauge Total, Irrigation Infrastructure Facilities	-
10.2 10.3 11 11.1 11.2 11.3 11.4 11.5 11.6	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES Livestock Watering (6 no.) Sanitation Facility (25 no.) Farm Shed (30 no.) Guard House (3 no.) Scheme equipment Boundary and Irrigation Mark Stones, Staff Gauge Total, Irrigation Infrastructure Facilities SCHEME BUILDING AND FACILITIES	-
10.2 10.3 11 11.1 11.2 11.3 11.4 11.5 11.6	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES Livestock Watering (6 no.) Sanitation Facility (25 no.) Farm Shed (30 no.) Guard House (3 no.) Scheme equipment Boundary and Irrigation Mark Stones, Staff Gauge Total, Irrigation Infrastructure Facilities SCHEME BUILDING AND FACILITIES Office Block	
10.2 10.3 11 11.1 11.2 11.3 11.4 11.5 11.6	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES Livestock Watering (6 no.) Sanitation Facility (25 no.) Farm Shed (30 no.) Guard House (3 no.) Scheme equipment Boundary and Irrigation Mark Stones, Staff Gauge Total, Irrigation Infrastructure Facilities SCHEME BUILDING AND FACILITIES Office Block Residential Building	
10.2 10.3 11 11.1 11.2 11.3 11.4 11.5 11.6 12 12.1 12.2 12.3	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES Livestock Watering (6 no.) Sanitation Facility (25 no.) Farm Shed (30 no.) Guard House (3 no.) Scheme equipment Boundary and Irrigation Mark Stones, Staff Gauge Total, Irrigation Infrastructure Facilities SCHEME BUILDING AND FACILITIES Office Block Residential Building Storage Building	-
10.2 10.3 11 11.1 11.2 11.3 11.4 11.5 11.6 12 12.1 12.2 12.3 12.4	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES Livestock Watering (6 no.) Sanitation Facility (25 no.) Farm Shed (30 no.) Guard House (3 no.) Scheme equipment Boundary and Irrigation Mark Stones, Staff Gauge Total, Irrigation Infrastructure Facilities SCHEME BUILDING AND FACILITIES Office Block Residential Building Storage Building Compound Work	
10.2 10.3 11 11.1 11.2 11.3 11.4 11.5 11.6 12 12.1 12.2 12.3 12.4 12.5	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES Livestock Watering (6 no.) Sanitation Facility (25 no.) Farm Shed (30 no.) Guard House (3 no.) Scheme equipment Boundary and Irrigation Mark Stones, Staff Gauge Total, Irrigation Infrastructure Facilities SCHEME BUILDING AND FACILITIES Office Block Residential Building Storage Building Compound Work Water Supply and Sanitary	
10.2 10.3 11 11.1 11.2 11.3 11.4 11.5 11.6 12 12.1 12.2 12.3 12.4 12.5 12.6	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES Livestock Watering (6 no.) Sanitation Facility (25 no.) Farm Shed (30 no.) Guard House (3 no.) Scheme equipment Boundary and Irrigation Mark Stones, Staff Gauge Total, Irrigation Infrastructure Facilities SCHEME BUILDING AND FACILITIES Office Block Residential Building Storage Building Compound Work Water Supply and Sanitary Electrical Work	
10.2 10.3 11 11.1 11.2 11.3 11.4 11.5 11.6 12 12.1 12.2 12.3 12.4 12.5	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES Livestock Watering (6 no.) Sanitation Facility (25 no.) Farm Shed (30 no.) Guard House (3 no.) Scheme equipment Boundary and Irrigation Mark Stones, Staff Gauge Total, Irrigation Infrastructure Facilities SCHEME BUILDING AND FACILITIES Office Block Residential Building Storage Building Compound Work Water Supply and Sanitary Electrical Work Rice Drying Platform (2 no.)	-
10.2 10.3 11 11.1 11.2 11.3 11.4 11.5 11.6 12 12.1 12.2 12.3 12.4 12.5 12.6	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES Livestock Watering (6 no.) Sanitation Facility (25 no.) Farm Shed (30 no.) Guard House (3 no.) Scheme equipment Boundary and Irrigation Mark Stones, Staff Gauge Total, Irrigation Infrastructure Facilities SCHEME BUILDING AND FACILITIES Office Block Residential Building Storage Building Compound Work Water Supply and Sanitary Electrical Work Rice Drying Platform (2 no.) Total, Scheme Building and Facilities	-
10.2 10.3 11 11.1 11.2 11.3 11.4 11.5 11.6 12 12.1 12.2 12.3 12.4 12.5 12.6	Main and Secondary Canal Road Pipe Culvert Structures Total, Access and Scheme Roads IRRIGATION INFRASTRUCTURE FACILITIES Livestock Watering (6 no.) Sanitation Facility (25 no.) Farm Shed (30 no.) Guard House (3 no.) Scheme equipment Boundary and Irrigation Mark Stones, Staff Gauge Total, Irrigation Infrastructure Facilities SCHEME BUILDING AND FACILITIES Office Block Residential Building Storage Building Compound Work Water Supply and Sanitary Electrical Work Rice Drying Platform (2 no.)	-

NAMALU IRRIGATION SCHEME INFRASTRUCTURE AND FACILITIES				
BILL SUMMARY				
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	Insurance of works	sum	1.00		
1.1.4	Third party insurance	sum	1.00		
1.1.5		sum	1.00		
	ed to summary page				-
1.2	SPECIFIED REQUIREMENTS				
	Site Offices and Housing				
1.2.1	Provision of rented office accommodation for the		04.00		
	Engineer's staff	month	24.00		
1.2.2	Maintenance of offices for the Engineer's staff	month	24.00		
1.2.3	Rental residential accommodation for the Engineer's staff (3No. Units)	month	24.00		
1.2.4	Maintenance of housing accommodation for the Engineer's staff (3No. Units)	month	24.00		
Total carrie	ed to summary page				-
1.3	SERVICES FOR THE ENGINEERS STAFF				
1.3.1	Services for the Engineer's Staff; Transport Vehicles; Station Wagon Transport Vehicle - standing costs	No.	1.00		
1.3.2	Services for the Engineer's Staff; Transport Vehicles; Pick-up transport vehicle - standing costs	No.	3.00		
1.3.3	Services for the Engineer's Staff; Transport Vehicles; Station Wagon Transport Vehicle - running costs	km	159,000		
1.3.4	Services for the Engineer's Staff; Transport Vehicles; Pick-up transport vehicle - running costs	km	318,000		
	Communication				
1.3.5	Establish communication system and dedicated email (wireless or leased line) system for the Engineer's office	sum	1.00		
1.3.6	Maintenance of communication system and dedicated email (wireless or leased line) system for the Engineer's office	month	24.00		
Total carrie	ed to summary page				
1.4	EQUIPMENT FOR USE BY THE ENGINEERS STAFF				_
1.4.1	Provision of office furniture & equipment for the Engineer's staff. Spec	sum	1.00		
1.4.2	Provision of personal office computers for use	Nr.	3.00		
1.4.3		Nr.	3.00		
1.4.4	Provision of 20.1 mega pixils digital camera with 32GB memory card of approved make for the entire	Nr.	3.00		
1.4.5		month	24.00		
	Attendance upon the Engineer's staff				
1.4.6		month	24.00		
1.4.7	Technician/Draftsman	month	12.00		
1.4.8		month	24.00		
	ed to summary page				_

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	Cum	1.00		
	(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				
4.5.46	Temporary Works				
1.5.12		Nr	5.00		
4.5.40	boards to the Engineer's satisfaction, spec		4.00		
1.5.13		sum	1.00		
1.5.14	Control and diversion of water from site and work areas to ensure the works are completed as				
	specified. Rate to include removal of all temporary	sum	1.00		
	facilities after construction				
1.5.15					
1.5.10	sites and work areas to original site in compliance	sum	1.00		
	with Social Requirements and Environmental	Sum	1.00		
1.5.16					
1.5.10	borrow sites and all sites and work areas	km	20.00		
Total carri	ed to summary page		<u> </u>		-
1.6	METHOD RELATED CHARGES				
1.6.1		sum	1.00		_
1.6.2				0.500.000	004.000.000
	supervision expenses	month	24.00	8,500,000	204,000,000
1.6.3	Production of As-built drawings as specified (4 sets)	L.sum	1.00		
1.6.4	- ' ' '	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
			ıl		

4.0.7	Ocation tests be will an absence on all area 'c' and conse			<u> </u>	
1.6.7	0 0 1	%	10.00		-
Total carrie	under 1.6.2, 1.6.4, 1.6.5& 1.6.6 above.				
	ed to summary page PROVISIONAL SUMS				
1.7 1.7.1	Allow for Geotechnical investigations to be carried				
1.7.1	out during construction to confirm design parameters	P.sum	1.00	100,000,000	100,000,000
	and soil properties for the Head work	r.suiii	1.00	100,000,000	100,000,000
1.7.2	Allow for topographical surveys to be carried out				
1.7.2	durning construction	P.sum	1.00	70,000,000	70,000,000
1.7.3	Allow for hands-on training of Employer's technical				
1.7.0	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				
	sums under 1.7.1, 1.7.2 & 1.7.3 above	%	10.00		-
Total carrie	ed to summary page				
1.8	GROUND INVESTIGATIONS				
1.8.1	Professional Services				
1.8.11	Technician Engineer	HR	200.00		-
1.8.12	Engineer or geologist - Principal or Consultant	HR	200.00		-
1.8.13	Visits to the site	HR	240.00		-
1.8.14	Overnight stays in connection to visits to the site	HR	240.00		-
Total carrie	ed to summary page				-
1.9	Environmental and Social Mitigation Activities				
1.9.1	Develop and operationalize a strict recruitment plan				
	and code of conduct for employees and workers;				
	Develop a communication and sensitization plan for	sum	1.00		
	employees, workers and general public about	Sum	1.00		
	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	sum	1.00		
	condom distribution on a monthly basis.	Juin	1.00		
1.9.3	Develop and implement a vegetation cover and				
	drainage management plan for all sites where	sum	1.00		
	excavation and landfill will take place to prevent soil				
4.0.4	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	1.00		
	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	Sprinkle water on all excavated sites and dusty				
1.9.5	vehicle pathways and limit vehicle speeds. Provide				
	tarpaulin covers for vehicles while hauling dust	sum	1.00		
	generating materials. Provide dust masks for all	Suili	1.00		
	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	1.00		
	hydrocarbons (disposal charge per quarter)				
1.10.2	Confine access to restricted work sites (including				
	hoarding, hiring of security guards)	sum	1.00		
1.10.3	Preparation, approval and implementation of the		,		
	Traffic Management Plan (TMP)	sum	1.00		
1.10.4	Preparation, approval and implementation of Fire	_	4.00		
	Management Plan	sum	1.00		
1.10.5	Installation of a fully equiped first aid room	sum	1.00		
	, , ,				

1.10.6	Hire of a trained Nurse and Social Development Expert for the duration of the project	sum	1.00	
1.10.7	Signing of an MOU with a referral hospital to provide ambulance services and handling severe cases /emergencies	sum	1.00	
1.10.8	Purchase and maintenance of drinking water dispensers	sum	1.00	
1.10.9	Installation and maintenance of hand washing facilities with soap and water at all project sites	sum	1.00	
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	1.00	
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	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 surplus	m ²	143,448.57		
	in spoil tips including placing up to 500m		-,		
2.1.2	Excavation of loose soild and alluvial material for	3	040 454 50		
	embankment foundation to max depth of 27m	m ³	212,454.58		
2.1.3	Excavation of over hanging rock and weathered rock				
	for embankment foundation to max depth of 10m	m^3	70,818.19		
2.1.4	Excavation for cutoff trench to any depth	m ³	11,596.24		
2.1.5	Excavation in rock for cutoff trench to any depth	m ³	34,788.72		
2.1.6	Clean up rock surface in cutoff trench debth				
	•	m ²	24,570.00		
2.1.7	Cement slurry treatment of rock surface in cutoff	m ³	2,925.00		
2.1.8	Dewatering of all excavation area	L.sum	1.00		
2.1.9	Compacted clay core and trench (Zone 1) (rate	3	4 404 000 00		
	includes quarry development, hauling, moisture	m ³	1,124,692.08		
	application and compaction)				
2.1.10	Compacted Granular Shell (Zone 3) (rate includes	3			
	quarry development, hauling, moisture application and	m ³	56,250.68		
0.4.44	compaction)				
2.1.11	Compacted toe rock fill and Horizontal Draimage	3	00 440 00		
	Blanket (Zone 5) (rate includes blasting, hauling,	m ³	60,413.66		
	spreading and compacting)				
2.1.12	Compacted backfill with free draining granular				
	material in the downstream of part of dam below	m ³	0.225.22		
	ground surface (rate includes quarry development,	III.	9,335.22		
	hauling, moisture application and compaction)				
2.1.13	Fine Filter, Zone 2A	m ³	57,647.75		
2.1.14	Coarse Filter, Zone 2B	m ³	186,829.50		
2.1.15		111	100,025.50		
2.1.10	Compacted riprap (Zone 6) (rate includes blasting,	m^3	112,857.99		
	hauling, spreading and compacting)	111	112,007.99		
2.1.16		m ³	4,960.80		
2.1.17	Crushed gravel 10-30mm diameter	m ³	2,106.00		
2.1.18		m ³	2,854.80		
	ŭ .	III	2,004.00		
2.1.19	footing (C-20)	m^3	585.00		
2.1.20					
2.1.20	of UNRA Standard boundary mark stones, engraved				
	with project name on both side of the road as directed	No.	400.00		
	by the Engineer				
2.1.21	Grouting and Dental treatment works	L.sum	1.00		
2.1.22	4m wide gravel access track downstream of the toe of	Liouin			
	the dam	m	1,230.00		
2.1.23	Concrete road kerbs to parking area.	m	20.00		
2.1.24		m	1,020.00		
2.1.25		m	1,230.00		
	ed to summary page		, 23.30		-
2.2	DAM OUTLET ARRANGEMENT				
2.2.1	APPROACH CHANNEL				
	Earth Work				
	Clearing and stripping of along the formation level on				
2.2.1.1	- ''	m^2	475.00		
	including placing up to 500m				

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
	Excavate to Inlet Channel to the design level on				
2.2.1.2	completion and disposal of surplus in spoil tips				-
	including placing up to 500m away				
	 a) Common excavation in open cut to any depth 	m^3	1,290.00		-
	b) Rock excavation in open cut to any depth	m^3	860.00		-
	Structural works				-
2.2.1.3	Blinding concrete: Class C20 (2500mm deep)	m^3	289.75		-
2.2.2	INTAKE TOWER				-
	Earth Work				-
	Excavate to Intake Tower foundation floor to formation				
2.2.2.1	level on completion and disposal of surplus in spoil	m^3	505.31		-
	tips including placing up to 500m away				
2.2.2.2	Backfill and compaction of selected material at pier	m^3	226 55		
2.2.2.2	and below dumped rock riprap area on completion	m	226.55		-

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
	Concrete Work				-
	Form Work provide cut and fix in position				-
2.2.2.3	Oridinary formwork Type "F2",	m^2	343.55		-
2.2.2.4	Oridinary formwork Type "F3",	m ²	515.33		-
2.2.2.5	Mild steel reinforcement bars	Kg	57,597.41		-
2.2.2.6	Blinding concrete: Class C20 (2500mm deep)	m ³	71.66		-
	Concrete Class C-40 to bed Floor, trash rack support,				
2.2.2.7	left and right side walls, bulk head gate maintenance	m^3	611.50		_
	and dock chamber, Intake structure operating room	•••			
	and gate walls				
2.2.2.8	Second Stage Concrete C-30 to high pressure	m^3	14.11		-
	emergency gate and bulk head gate side walls Steel Work				
	Support columns and beams for overhead gantry				
2.2.2.9		LS	1.00		
	associated connections to Intake Tower concrete.		1.00		
	Access Stairs to tower				
2.2.2.10	Satinless ladder	m	9.00		-
	Safety Hand Rail to Tower and Varandah				
2.2.2.11	Circular tube for stairs, nominal size 75mm and	m	24.70		_
2.2.2.11	thickness 4mm	111	24.70		
	Miscellaneous				
2.2.2.12	Supply and fix 230 mm PVC hydrofoil water-stops	m	950.00		-
2.2.2.13	Two coats of Bituminous paint to surface of contraction Joints	m^2	20.53		-
2.2.2.14		m	10.00		
2.2.2.14		LS	1.00		
2.2.2.10	Foot Bridge		1.00		
	Earth Work				
0.0046		2	70.50		
2.2.2.16		m ²	72.50		-
2.2.2.17		m³	20.00		-
2.2.2.18	Backfill and compaction of selected material at pier and below dumped rock riprap area on completion	m³	15.00		-
	Concrete Work				
	Form Work provide cut and fix in position				
	Oridinary formwork Type "F2", as detailed in the	_			
2.2.2.19	specification, to Class-30 Concrete pier, girder, slab	m ²	174.00		-
	and at second stage concrete floor bed				
2.2.2.20	Mild steel reinforcement bar	Kg	8,478.00		-
2.2.2.21	Lean concrete 100mm thick (C-15)	m ³	146.98		-
2.2.2.22	Concrete Class C-30 to abutment, pier, and slab Steel Work	m ³	90.00		-
	Supply and install galvanized mild steel handrail to				-
	footbridge including galvanized holding down bolts,	m	29.00		_
2.2.2.23	base plate and grouting.		20.00		
2.2.2.24	Pile Foundation	LS	1.00		
	OD!! I WAY				
2.3	SPILLWAY				
2.3.1	Earth Work Clearing and Stripping the construction area	m ²	4E4 000 00		
2.3.1.1	Residual soil excavation to max depth of 5m	m ²	454,098.00		-
2.3.1.2	•	m ³	8,184.00		-
2.3.1.3	Soft formation excavation in open cut to max depth of Hard rock formation excavation in open cut to max		34,961.11		-
2.3.1.4	depth of 5m	m ³	8,700.53		-
2.3.1.5		m³	267.96		-
	Concrete work				
2.3.1.6		m ²	2,818.90		-
2.3.1.7	Reinforcement bars	Kg	130,166.71		

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
2.3.1.8	Reinforced concrete: Class C30	m ³	1,658.17		-
2.3.1.9	100mm lean concreate bedding 100mm (C-10)	m^2	169.31		-
2.3.1.10	coble stone and 40% concrete C-30)	m³	56.00		-
0.04.44	Concrete Finishing	m2	64.90		
2.3.1.11 2.3.1.12	Surface finish: Class U3 to spillwier crest Surface finish: Class U3 to spillway chute	m² m²	64.80 3.60		-
	Miscellaneous	111-	3.00		-
2.3.1.13		m	195.00		_
2.3.1.14	Two coats of Rituminous paint to surface of	m ²	250.00		-
2.3.1.15		m	20.00		_
2.3.1.16		m	40.00		-
2.3.2	Exit channel				
	Earth Work				
2.3.2.1	Clearing and Stripping the construction area	m ²	2,187.19		
2.3.2.2	Common excavation in open cut to any depth	m ³	3,268.12		-
2.3.2.3	Compacted rockfill, riprap (rate includes blasting,	m^3	750.75		_
	hauling, spreading and compacting) Drainage collector pipe				
2.3.2.4		m ³	69.00		_
2.3.2.5	9 ,	m	929.65		_
	ed to summary page		020.00		-
	CONDUIT				
	Earth Work				
	Excavate to Inlet Channel to the design level on				
	completion and disposal of surplus in spoil tips				
2224	including placing up to 500m away Common excavation in open cut to any depth	m ³	2 420 50		
2.3.3.1 2.3.3.2		m³	2,139.50 1,283.70		
2.3.3.3		m ³	4,848.75		_
2.0.0.0	Concrete Work	111	4,040.70		
2.3.3.4	Concrete Class C-30 to floor and ceiling for outlet entrance and encase outlet steel pipe	m³	270.00		-
2.3.3.5	Surface finish: Class U3	m^2	608.00		-
2.3.3.6	Formwork for curved section	m^2	192.00		-
2.3.3.7	Mild steel reinforcement to structure	Kg	25,434.00		-
	Steel work				
2.3.3.8		m^2	720.00		-
Total carrie	ed to summary page		-		-
2.3.4	TERMINAL STRUCTURES				
2.3.4	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				
2.3.4.1	Common excavation in open cut to any depth	m ³	1,059.75		-
2.3.4.2		m ³	706.50		-
2.3.4.3		m ³	462.50		-
	Concrete Work Concrete Class C-30 to floor and ceiling for outlet				
2.3.4.4	entrance and encase outlet steel pipe	m ³	546.25		-
2.3.4.5	Formwork	m ²	621.21		_
2.5. 1.0	Mild steel reinforcement to structure	Kg	42,880.63		_
	Steel work	3	,000.00		
	Supply and install galvanized mild steel handrail to				
2.3.4.6	opration platform including galvanized holding down bolts, base plate and grouting.	m ²	16.80		-
	Exit channel				-

	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
Clearing and Stripping the construction area	m ²	1,809.00		-
Common excavation in open cut to any depth	m^3	3,176.82		-
Compacted rockfill, riprap (rate includes blasting, hauling, spreading and compacting)	m³	1,110.38		-
d to summary page				-
Submerged wheel gate (WxH)m & Embedded part				
Net opening 1.5mx1.8m and designed head 8.5m, complete with operating mechanism and Hoisting seat (Main Service gate)	Nr	1.00		-
Net opening 1.5mx1.8m and designed head 8.5m, complete with operating mechanism and Hoisting seat(For Emergency gate)	Nr	1.00		-
Net opening 1.5mx1.8m and Manufacturing height 9.9m, complete with 10mm thickness steel plate (Gate frame for Service & Emergency)	Nr	2.00		-
Motor and manual screw hoist with 160KN capacity for service gate	Nr	1.00		-
Movable rope winch (over crane) with 50KN capacity for Installation and maintenance & emergency gate	Nr	1.00		-
Track Rack & Embedded part				-
Fixed trash rack with Net opening (1.7m x 2.8m) vertical installation	Nr	1.00		-
Embedded part including support beams	Nr	1.00		-
Balance covered gate with dia. 0.3m (By-pass type)	Nr	1.00		-
	Compacted rockfill, riprap (rate includes blasting, hauling, spreading and compacting) d to summary page Submerged wheel gate (WxH)m & Embedded part Net opening 1.5mx1.8m and designed head 8.5m, complete with operating mechanism and Hoisting seat (Main Service gate) Net opening 1.5mx1.8m and designed head 8.5m, complete with operating mechanism and Hoisting seat(For Emergency gate) Net opening 1.5mx1.8m and Manufacturing height 9.9m, complete with 10mm thickness steel plate (Gate frame for Service & Emergency) Motor and manual screw hoist with 160KN capacity for service gate Movable rope winch (over crane) with 50KN capacity for Installation and maintenance & emergency gate Track Rack & Embedded part Fixed trash rack with Net opening (1.7m x 2.8m) vertical installation Embedded part including support beams	Compacted rockfill, riprap (rate includes blasting, hauling, spreading and compacting) d to summary page Submerged wheel gate (WxH)m & Embedded part Net opening 1.5mx1.8m and designed head 8.5m, complete with operating mechanism and Hoisting seat (Main Service gate) Net opening 1.5mx1.8m and designed head 8.5m, complete with operating mechanism and Hoisting seat(For Emergency gate) Net opening 1.5mx1.8m and Manufacturing height 9.9m, complete with 10mm thickness steel plate (Gate frame for Service & Emergency) Motor and manual screw hoist with 160KN capacity for service gate Movable rope winch (over crane) with 50KN capacity for Installation and maintenance & emergency gate Track Rack & Embedded part Fixed trash rack with Net opening (1.7m x 2.8m) vertical installation Embedded part including support beams Nr Balance covered gate with dia. 0.3m (By-pass type)	Compacted rockfill, riprap (rate includes blasting, hauling, spreading and compacting) d to summary page Submerged wheel gate (WxH)m & Embedded part Net opening 1.5mx1.8m and designed head 8.5m, complete with operating mechanism and Hoisting seat (Main Service gate) Net opening 1.5mx1.8m and designed head 8.5m, complete with operating mechanism and Hoisting seat(For Emergency gate) Net opening 1.5mx1.8m and designed head 8.5m, complete with operating mechanism and Hoisting seat(For Emergency gate) Net opening 1.5mx1.8m and Manufacturing height 9.9m, complete with 10mm thickness steel plate (Gate frame for Service & Emergency) Motor and manual screw hoist with 160KN capacity for service gate Movable rope winch (over crane) with 50KN capacity for Installation and maintenance & emergency gate Track Rack & Embedded part Fixed trash rack with Net opening (1.7m x 2.8m) vertical installation Embedded part including support beams Nr 1.00 Balance covered gate with dia. 0.3m (By-pass type) Nr 1.00	Compacted rockfill, riprap (rate includes blasting, hauling, spreading and compacting) d to summary page Submerged wheel gate (WxH)m & Embedded part Net opening 1.5mx1.8m and designed head 8.5m, complete with operating mechanism and Hoisting seat (Main Service gate) Net opening 1.5mx1.8m and designed head 8.5m, complete with operating mechanism and Hoisting seat(For Emergency gate) Net opening 1.5mx1.8m and Manufacturing height 9.9m, complete with 10mm thickness steel plate (Gate frame for Service & Emergency) Motor and manual screw hoist with 160KN capacity for service gate Movable rope winch (over crane) with 50KN capacity for Installation and maintenance & emergency gate Track Rack & Embedded part Fixed trash rack with Net opening (1.7m x 2.8m) vertical installation Embedded part including support beams Nr 1.00 Balance covered gate with dia. 0.3m (By-pass type)

LL NO. 3 MAIN CANAL		BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UG
3.1	LINED MAIN CANAL about 4.2 Km				
	Site Clearance and 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	41,587.45		
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	12,865.75		
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	14,607.63		
3.1.4	Extra over all excavation and earthworks for breaking up rock at any point (0-2m depth)	m ³	3,572.05		
	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	2,421.29		
3.1.6	5mm thick 1:3 cement sand plaster to excavated canal surfaces	m^2	32,283.81		
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	64.00		
	FENCING				
3.1.8	Concrete post and wire fence including chainlink, mesh, intermediate, corner and bracing posts in accordance with the drawings.	m	420.00		

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	Clearing and stripping of the structures area to				
	formation level on completion and disposal of	m^2	7,840.06		-
	surplus in spoil tips including placing up to 300m				
3.2.1.2		_			
	completion and disposal of surplus in spoil as	m^3	22,961.70		-
	directed by Engineer				
3.2.1.3		3	40 770 74		
	borrow pits and transported to working space	m^3	10,778.74		-
2 2 4 4	compacted to satisfaction of the Engineer				
3.2.1.4	Provide and fill hard core base 300mm as directed	m^3	423.00		-
3.2.1.5	by the Engineer				
3.2.1.3	Provide and fill well compacted and blinded with mixed sand and gravel under masonry floor to	0			
	approach channel side and floor and structure floor	m^3	758.59		-
	Structural work				
3.2.1.6	· •	m^3	4,566.22		_
	stone, in sand mortar 1:3	111	4,500.22		
3.2.1.7	20mm thick 1:3 cement sand plaster to stone	m^2	2,513.86		_
	masonary drop structure	111	2,010.00		
3.2.1.8					
3.2.1.9	, .	m ³	33.29		-
3.2.1.10		m ³	106.99		-
	ed to summary page				-
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	m^2	1,026.95		
	surplus in spoil tips including placing up to 300m				
3.2.2.2	Excavate of ordinary soil to formation level on				
	completion and disposal of surplus in spoil as	m^3	1,052.79		
	directed by Engineer				
3.2.2.3		0			
	borrow pits and transported to working space	m^3	138.06		
0.0.0.4	compacted to satisfaction of the Engineer				
		2			
3.2.2.4	Provide and fill hard core base 300mm as directed	m³	231.60		
S.Z.Z.4	by the Engineer	m ³	231.60		
	by the Engineer Structural works	m³	231.60		
3.2.2.4	by the Engineer Structural works Provide and fill with hard basaltic or equivalent	m³ m³	231.60 362.31		
3.2.2.5	by the Engineer Structural works Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3				
	by the Engineer Structural works Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3 Providing and Placing in position High Yield Strength		362.31		
3.2.2.5	by the Engineer Structural works Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3 Providing and Placing in position High Yield Strength ribbed reinforcement bars including cutting,				
3.2.2.5	by the Engineer Structural works Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3 Providing and Placing in position High Yield Strength ribbed reinforcement bars including cutting, bending, binding and welding joints where	m ³	362.31		
3.2.2.5	by the Engineer Structural works Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3 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	m³ Kg	362.31 1,321.75		
3.2.2.5 3.2.2.6 3.2.2.7	by the Engineer Structural works Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3 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 20mm thick 1:3 cement sand plaster to stone	m³ Kg	362.31 1,321.75 269.35		
3.2.2.5	Structural works Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3 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 20mm thick 1:3 cement sand plaster to stone To provide cut and fix in position smooth finish form	m³ Kg	362.31 1,321.75		
3.2.2.5 3.2.2.6 3.2.2.7 3.2.2.8	Structural works Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3 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 20mm thick 1:3 cement sand plaster to stone To provide cut and fix in position smooth finish form work	m ³ Kg m ² m ²	362.31 1,321.75 269.35 143.21		
3.2.2.5 3.2.2.6 3.2.2.7	Structural works Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3 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 20mm thick 1:3 cement sand plaster to stone To provide cut and fix in position smooth finish form	m³ Kg	362.31 1,321.75 269.35		

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	18.00		-
	Diameter 750 mm	m	18.00		-
	Diameter 900 mm	m	24.00		-
	Diameter 1050 mm	m	12.00		-
Total carried	d to summary page		•		-
3.2.3	Main Canal Crossing Structures (1 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	121.00		-
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	79.20		-
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	31.68		-
3.2.3.4	Provide and fill hard core base 150 mm as directed by the Engineer	m ³	7.92		-
3.2.3.5	Structural works				-
3.2.3.6	To provide cut and fix in position smooth finish form work	m ²	425.28		-
3.2.3.7	Lean concrete class C-15, 50mm thick blinding	m^3	52.80		-
3.2.3.8	Provide reinforced concrete class C25	m ³	129.39		-
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	9,390.04		-
Total carried	d to summary page				-

ILL NO. 4	SECONDARY CANALS	BOQ				
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)	
4.1	LINED SECONDARY CANALS about 18km					
	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	118,146.75			
4.1.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	22,396.11			
4.1.3		m ³	29,111.85			
4.1.4	Extra over all excavation and earthworks for breaking up rock at any point (0-2m depth)	m ³	1,222.70			
	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	6,259.46			
4.1.6	5mm thick 1:3 cement sand plaster to excavated canal surfaces	m ²	83,459.45			
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	165.19			

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	Clearing and stripping to formation level on completion and disposal of surplus in spoil as	m ²	6,148.05		
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	18,934.87		
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	6,445.61		
4.2.1.4	Provide and fill hard core base 300mm as directed by the Engineer	m ³	159.58		
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	394.81		
	Structural work				
4.2.1.6	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m^3	4,313.55		
4.2.1.7	20mm thick 1:3 cement sand plaster to stone masonary drop structure	m²	3,042.12		
	Mass concrete class C-25 to				
4.2.1.8	Masonry coping	m^3	24.93		
4.2.1.9	Floor cover	m^3	86.97		
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	Clearing and stripping of the structures area to				
	formation level on completion and disposal of	m^2	2,383.92		
	surplus in spoil tips including placing up to 300m	•••	_,,,,,,,		
4.2.2.2					
1.2.2.2	completion and disposal of surplus in spoil as	m^3	1,573.42		
	directed by Engineer	111	1,070.42		
4.2.2.3					
7.2.2.0	borrow pits and transported to working space	m ³ 395.44			
	compacted to satisfaction of the Engineer	1111	000.44		
4.2.2.4	Provide and fill hard core base 300mm as directed				
4.2.2.4	by the Engineer	m^3	133.45		
	Structural works				
4005					
4.2.2.5	•	m^3	1,075.27		
	stone, in sand mortar 1:3		,		
4.2.2.6					
	ribbed reinforcement bars including cutting,	Kg 6,368.62	6.368.62		
	bending, binding and welding joints where				
	necessary, hooking etc. complete as per drawing				
4.2.2.7	20mm thick 1:3 cement sand plaster to stone	m^2	1,064.82		
4.2.2.8	To provide cut and fix in position smooth finish form	m^2	711.06		
	work	m	711.00		
4.2.2.9	Lean concrete class C-15, 75mm thick blinding as	3	407.44		
	specified in the Drawing	m^3	127.14		
4.2.2.10		m^3	90.23		
4.2.2.11	Precast concrete pipe diameter and thickness as	•••			
	mentioned in the drawing				
	Diameter 450 mm	m	208.51		
	Diameter 900 mm				
-1-1		m	10.43		
	ed to summary page				-
4.2.3	Secondary Canal Crossing Structures				
	Earth work				
4.2.3.1	Clearing and stripping of the structures area to				
	formation level on completion and disposal of	m^2	1,650.00		
	surplus in spoil tips including placing up to 300m		·		
4.2.3.2	Excavate of ordinary soil to formation level on				
	completion and disposal of surplus in spoil as	m^3	1,080.00		
	directed by Engineer		,		
4.2.3.3	, ,				
	borrow pits and transported to working space	m^3	410.40		
	compacted to satisfaction of the Engineer	•••			
4.2.3.4		2			
	by the Engineer	m^3	108.00		
	Structural works				
4.2.3.5					
٦.۷.۵.٦	work	m^3	4,070.20		
4.2.3.6	-	m ³	720.00		
4.2.3.7		m ³	1,266.89		
4.2.3.8					
	ribbed reinforcement bars including cutting,	Kg	95,982.79		
	bending, binding and welding joints where	1.9	00,002.79		
	necessary, hooking etc. complete as per drawing				
	ed to summary page				

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	1000		
5.1.2	exceeding 1.5m, fill of depressions and farmland levelling to achieve design /formation farmland levels as per the Engineers direction	На	1000		
5.2	UNLINED TERTIARY CANALS				
-	Earth Works				
5.2.1	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ²	105,072		-
5.2.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	4,232		-
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	29,691		-
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	m²	14,870		-
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	3,988		-
5.3.1.3	Back Fill with excavate material to working space compacted to satisfaction of the Engineer	m ³	1,396		-
	Structural work				-
5.3.1.4	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m ³	3,068		-
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	518		-
5.3.1.6	Concrete class C-25 to gate post and columns	m ³	56		-
5.3.1.7	To provide cut and fix in position smooth finish form work to masonry coping	m ²	5,927		-
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	9,917		-
Total carrie	ed to summary page				-

LL NO. 5	TERTIARY CANALS				
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	193		
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	599		
5.3.2.3		m ³	139.00		
5.3.2.4	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	8.45		
	Structural work				
5.3.2.5	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m ³	138.46		
5.3.2.6	Mass concrete class C-25 to				
5.3.2.7	Masonry coping	m^3	0.54		
5.3.2.8	Floor cover	m^3	1.85		

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	118,957.87		-
6.1.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m^3	171,025.06		
Total carrie	ed to summary page				
6.2	STRUCTRES AND ASSOCIATED WORKS				
6.2.1					
	Earth work				
6.2.1.1	Clearing and stripping of along the canal to formation level on completion and disposal of	m ²	5,640.33		-
6.2.1.2	surplus in spoil as directed by Engineer Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as	m ³	4,321.30		
	directed by Engineer	III	4,321.30		
	Structural work				-
6.2.1.3	stone, in sand mortar 1:3	m ³	1,749.05		-
6.2.1.5	Provide and pointing with cement mortar to the stone masonry sides and floor	m^2	3,462.31		-
6.2.1.6	Masonry coping with C25	m^3	58.41		-
Total carrie	ed to summary page				
6.2.2	Outfall Structures to Main Drain				
	Earth work				
6.2.2.1	surplus in spoil as directed by Engineer	m²	724.37		-
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	626.56		-
6.2.2.3	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	219.29		
6.2.2.4	drain side and floor	m ³	68.75		
	Structural work				-
6.2.2.5	stone, in sand mortar 1:3	m ³	286.09		-
6.2.2.6	masonry sides and floor	m^2	493.10		
	ed to summary page				
6.2.3	Pipe Culvert Structures				
6.2.3.1	Earth work Clearing and stripping of along the canal to formation level on completion and disposal of	m ²	1,100.00		-
	surplus in spoil as directed by Engineer	111	1,100.00		

6.2.3.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m^3	390.00	-
6.2.3.3	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	1,400.00	-
	Structural work			-
6.2.3.5	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m ³	501.68	-
6.2.3.6	Mass concrete class C20	m^3	241.96	-
6.2.3.7	To provide cut and fix in position smooth finish form work to masonry coping	m ²	560.00	-
6.2.3.8	Lean concrete class C-15, 70mm thick blinding under the pipe floor bedding	m ³	600.00	-
	20mm thick 1:3 cement sand plaster to stone masonary drop structure	m ²	754.57	-
	Precast concrete pipe and thickness as mentioned in			
	the drawing			
6.2.3.11	Diameter 1000 mm	m	140.00	-
6.2.3.12	Diameter 1200 mm	m	140.00	-
Total carried	d 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	55,085.09		-	
7.1.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	28,312.53		-	
Total carrie	ed to summary page					
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	m²	3,660.37		-	
7.2.1.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	3,166.11		-	
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	m³	1,108.14		-	
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	347.41		-	
	Structural work				-	
7.2.1.5	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m ³	1,445.69		-	
7.2.1.6	Mass concrete class C-20 to masonry coping	m ³	119.68		-	
7.2.1.7	Provide and pointing with cement mortar to the stone masonry sides and floor	m ²	2,491.72		-	
Total carrie	ed to summary page				-	

BILL NO. 8	FLOOD PROTECTION WORKS			BOQ	
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
8.1	FLOOD PROTECTION DYKE				
	Earth work				
8.1.1	Clearing and stripping of along the Dyke to formation level on completion and disposal of surplus in spoil as directed by Engineer	m²	20,242.74		-
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	20,926.36		-
Total carrie	d 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	103,612.46		-
8.2.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	136,345.20		-
	d 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	m^2	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	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m^3	883.61		-
8.3.1.4	Provide and pointing with cement mortar to the stone masonry sides and floor	m ²	1,748.99		-
8.3.1.5	Masonry coping with C25	m ³	25.29		-
	d to summary page ESCAPE CANAL				
0.4	Earth work				
	Clearing and stripping of along the canal to formation				
8.4.1	level on completion and disposal of surplus in spoil as directed by Engineer	m ²	8,100.00		-
8.4.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	3,753.00		-
Total carrie	d to summary page				
	RIVER DREDGING				
	Earth work				
8.5.1	River Dredging, Widening, Shaping and disposal of spoil material as directed by the Engineer	m ³	34,056.00		-
Total carrie	d to summary page				-

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		-	
9.1.2	1500*1200 (mm)	Nr	2		-	
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	4		-	
Total carrie	ed to summary page				-	

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
9.3	SC-1 CANAL CR & HR GATE				
	Secondary Canal-1				
	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	4		-
	Tertiary Canals withinSC-1				
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	5		-
Total carrie	d to summary page		<u> </u>		-
9.4	SC-2 CANAL CR & HR GATE				
	Secondary Canal-2				
	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	4		-
	Tertiary Canals withinSC-2				
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	6		-
Total carrie	d to summary page				-

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
9.5	SC-3 CANAL CR & HR GATE				
	Secondary Canal-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				
9.5.1	specified in the Drawing 900*810~500(mm)	Nim	4		
9.5.1	` '	Nr	4		-
	Tertiary Canals withinSC-3 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	4		-
9.5.2	directed by the Engineer				
Total carri	ed to summary page				-
9.6	SC-4 CANAL CR & HR GATE				
	Secondary Canal-4				
	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				
9.6.1	1200~1000*900~500(mm)	Nr	12		-
	Tertiary Canals withinSC-4				
	Single leaf metal sheet Vertical hand lifted sliding				
	gate with chain and pin lock with 0.4mX0.35m	Nr	11		-
9.6.2	~0.45m x0.45m as shown on the drawings ana as directed by the Engineer				
	ed to summary page				
9.7	SC-5 CANAL CR & HR GATE				_
J.1	Secondary Canal-5				
	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	7		-
	Tertiary Canals withinSC-5				
	Single leaf metal sheet Vertical hand lifted sliding				
	gate with chain and pin lock with 0.4mX0.35m	Nr	12		_
0.7.0	~0.45m x0.45m as shown on the drawings ana as				
9.7.2	directed by the Engineer				
	ed to summary page				-
9.8	SC-6 CANAL CR & HR GATE				
	Secondary Canal-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				
9.8.1	1000~650*560~400(mm)	Nr	12		-
	Tertiary Canals withinSC-6				
9.8.2	Single leaf metal sheet Vertical hand lifted sliding				
	gate with chain and pin lock with 0.4mX0.35m	Nie	10		
	~0.45m x0.45m as shown on the drawings ana as	Nr	12		-
	directed by the Engineer				

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
Total carried to summary page					

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
9.90	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				
9.9.1	450*450(mm)	Nr	1,450		-
Total carri	ed to summary page				-

BILL NO. 1	D ACCESS AND SCHEME ROADS			BOQ	
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
10.1	MAIN ACCESS ROAD				
10.1.2	Grade the main access 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		
otal carrie	ed to summary page				-
	Access road length is about 22 Km 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	m²	132,023		-
10.2.2	away Excavation for the road foundation on completion	m ³	11,002		_
	including treaming for v shaped side ditches	•••	- 1,002		
10.2.3	Sub base gravel material material 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	29,705		-
	ed to summary page				-
10.3	CULVERT CROSSING STRUCTURES				
	Earth work				
10.3.1	Pipe Culvert Structures				
10.3.2	Earth work Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ²	440.00		-
	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	156.00		-
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	560.00		-
10.3.5	Structural work				
10.3.6	stone, in sand mortar 1:3	m ³	200.67		-
10.3.7	Mass concrete class C20	m^3	96.78		-
10.3.8	work to masonry coping	m ²	224.00		-
10.3.9	Lean concrete class C-15, 70mm thick blinding under the pipe floor bedding	m ²	240.00		-
10.3.10	masonary drop structure	m ²	301.83		-
10.3.11	Precast concrete pipe and thickness as mentioned in the drawing				

BILL NO. 10 ACCESS AND SCHEME ROADS		BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
10.1	MAIN ACCESS ROAD				
10.1.2	Grade the main access 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 carried	d to summary page				-
	Access road length is about 22 Km				
10.3.12	Diameter 1200 mm	m	56.00		-
Total carried to summary page					

BILL NO. 11 IRRIGATION INFRASTRUCTURE 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 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				-
44.4.40	spread as instructed		00.00		
11.1.10		m³	90.00		-
44 4 44	BASE SLAB (PLATFORM)				-
11.1.11	· ·	m^2	135.00		-
	compacted Murram Blinding				
	Supply and place well compacted murram of the				-
	following thickness				-
11.1.12		m³	12.00		_
11.1.12	REINFORCED CONCRETE	111"	12.00		<u> </u>
	Supply and cast well vibrated reinforced concrete,				-
	class C25 of the following thickness				-
11.1.13	Base slab thickness not exceeding 150mm	m³	21.00		
11.1.14	Ü				
	thickness not exceeding 100mm	m³	2.10		-
	Reinforcement				_
11.1.15		m ²	135.00		-
11.1.16		kg	600.00		-
11.1.10	CONCRETE ANCILLARIES	Ng	000.00		<u> </u>
	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	111	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				-
	Supply and fix 40mm GI pipes for the cattle watering				
	troughs inlet				-
11.1.20			4E 00		
	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	40 mm GI elbows	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				-
otal carrie	ed to summary page				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	Lay, compact and level well approved hardcore bed	m³	0.78		-
	200mm thick				
11.2.7	Blind the hardcore With 50mm sand	m²	3.87		-
11.2.8	Approved Damp proof membrane as described;				-
11.2.9	1000 Gauge horizontal polythene sheeting laid with	m²	3.87		-
	450mm laps as joints				
	Designed mix, grade C20 concrete, to BS 5328, with				
	ordinary Portland cement to BS 12, 20mm aggregate				-
44.0.40	to BS882, for the following aggregate sizes				
11.2.10	150mm thick foundation well compacted with a vibrator	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		-
11.2.12	and cured to the satisfaction of the Engineer				
11.2.12	provide a pre cast concrete cover for the drainage	nr	1.00		-
11.2.13	opening for the pit BRC Mesh A142 with over laps 150mm	m³	5.84		
11.2.13	Approved brickwall in cement-mortar (1:4)	III	3.04		-
11.2.14	Erect 200mm thick brick wall up to a height as				
11.2.17	indicated in the drawings for the pit. Leave provisions	m²	31.06		-
11.2.15	Ditto but 150mm thick brick wall from strip foundation				
11.2.10	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;	- 111	0.04		-
11.2.17		m²	2.89		-
11.2.18	Sides and soffites of the ground beam and the				
	intermediate beam	m²	8.21		-
11.2.19	Sides and soffites of the slab with squat holes	m²	2.75		-
11.2.20		m²	40.50		-
11.2.21	Sides and soffites of the slab at the bottom of the pit	m²	0.85		-
	Designed mix, grade C25 concrete, to BS 5328, with				
	ordinary Portland cement to BS 20, 12mm aggregate				-
	to BS882, for the following;				
11.2.22	200mm thick reinforced concrete intermendiate and	3	0.00		
	ground beam	m³	0.68		-
11.2.23	200mm reinforced concrete columns	m³	0.29		-
11.2.24	175mm thick, reinforced concrete slab, well				
	compacted with a vibrator and cure to the satisfaction	m³	0.76		-
	of the Engineer. Leave provisions for squat holes and				
	Reinforcement bars to BS 4449 as described in				
	reinforced concrete slab				<u> </u>
	175mm thick ground slab with				-
11.2.25	Y10mm diameter cold worked square twisted bars at				
	including bends, hooks, binding wire in the beam to	kg	24.46		-
	Engineer's Approval				

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.)		1	•	0.0
11.3	FARM SHED (30no.)				
	SUB STRUCTURE				
	Excavation				
11.3.1	Excavate oversite average depth 150mm to remove	2	45.54		
	the vegetable soil and deposit in heaps 300m away from site in an appropriate place to Engineer's	m²	15.54		-
11.3.2	Excavation for foundations, in material other than top				
11.5.2	soil, rock or artificial hard material, commencing	m³	10.20		_
	surface is the stripped ground level depth 0.25 - 1.5		10.20		
11.3.3	Return fill and Ramp to back fill	m³	8.64		_
11.3.4	Approved Hardcore filling as described;				_
11.3.5	Approved anti termite treatement aplied to sides and				
11.0.0	bottoms of all excavations,top of hardcore etc	SM	5.94		-
11.3.6	Lay, compact and level well approved hardcore bed		0.00		
	200mm thick	m³	3.60		-
11.3.7	Blind the hardcore With 50mm sand	m²	5.94		-
	Approved Damp proof membrane as described;				-
11.3.8	1000 Gauge horizontal polythene sheeting laid with	m²	7.50		
	450mm laps as joints	111-	7.50		-
	Designed mix, grade C20 concrete, to BS 5328,				
	with ordinary Portland cement to BS 12, 20mm				-
44.0.0	aggregate to BS882, for the following aggregate				
11.3.9	100mm thick foundation well compacted with a vibrator	m³	2.05		-
11.3.10	and cured to the satisfaction of the Engineer BRC Mesh A142 with over laps 150mm	m³	15.54		
11.3.10	Approved brickwall in cement-mortar (1:4)	1115	15.54		-
11.3.11	200mm thick of blocks in 1:4 cement sand mortar for				-
11.3.11	plinth wall including reinforcement with mansory				
	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;	0	1.00		_
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		_
11.0.10	Columns	****	0.20		
11.3.17	Y16mm diameter cold worked square twisted bars at				_
11.5.17	including bends, hooks, binding wire in the beam to	kg	90.60		_
	Engineer's Approval	Ng	00.00		
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		_
	SUPERSTRUCTURE		10		-
	Approved brickwall in cement-mortar (1:4)		 		_
11.3.21	230mm thick masonry using solid block wall, mild steel				_
11.0.21	laid to form alternate courses of headers and	SM	10.10		_
	stretchers, laid on and incl. mortar ratio 1:3				
11.3.22	Sawn formwork as described to;				-
11.3.23	Sides and soffites of reinforced concrete beam	m²	1.56		-

Bill No.	Description	UNIT	Q'TY	Unit Rate (UGX)	AMOUNT (UGX)
11.3.24	Reinforced concrete 1:2:4 in:				-
11.3.25	200mm reinforced concrete ring beam	m³	0.23		-
	Reinforcement bars to BS 4449 as described in				
	reinforced concrete ring beam and column				-
11.3.26	· · · · · · · · · · · · · · · · · · ·				
	including bends, hooks, binding wire in the beam to	kg	139.06		-
44.0.07	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	•	l. m	00.00		
	including bends, hooks, binding wire in the beam to	kg	89.00		-
11.3.30	Engineer's Approval 100mm thick, reinforced concrete slab, well				
11.5.50	compacted with a vibrator and cure to the satisfaction	m³	1.55		<u>-</u>
	of the Engineer.				
11.3.31	Concreting to columns	СМ	0.34		_
	FINISHING	- · · ·	3.0.		-
	Cement Sand (1:4) plaster as described;				_
11.3.32					
11.5.52	(internal surfaces)	m²	20.00		-
11.3.33		_			
	(external surfaces)	m²	25.60		-
11.3.34	Cement-sand screed (1:3) as described;				-
11.3.35	- -				
	of the vaults and ramp, and finish smooth with a steel	m²	15.54		-
	float using cement grout				
	PAINTING				-
11.3.36	117				
	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	0.0
11.4	GUARD HOUSE (3no.)				
	SUB STRUCTURE				
	Excavation				
11.4.2	U .				
	the vegetable soil and deposit in heaps 300m away	m²	15.54		-
44.40	from site in an appropriate place to Engineer's				
11.4.3	·	2	40.00		
	soil, rock or artificial hard material, commencing	m³	10.20		-
11.4.5	surface is the stripped ground level depth 0.25 - 1.5 Return fill and Ramp to back fill	m- ?	0.04		
11.4.5	·	m³	8.64		-
44 4 4 7	Approved anti-termite treatement applied to sides and				-
11.1.15	·	SM	5.94		-
11.4.6	bottoms of all excavations,top of hardcore etc Lay, compact and level well approved hardcore bed				
11.4.0	200mm thick	m³	3.60		-
11.4.7	Blind the hardcore With 50mm sand	m²	5.94		_
11.4.8			0.04		_
11.4.9					<u>-</u>
		m²	7.50	ı	

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 1.56 - 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 - 11.4.31 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 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 beam m² 1.55 - 11.4.31 Sides and soffities of reinforced concrete beam m² 1.55 - 11.4.31 Sides and soffities of the slab m² 11.4.32 Sides and soffities of the slab m² 11.4.34 Sides and soffities of the slab m² 11.4.31 Sides and soffit	11.4.13		m³	15.54		-
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 4360 (hoop iron jevery two courses 11.4.16 Apply 2 coats of biruminous paint to plinth wall m² 25.30		<u> </u>	***	10.01		_
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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 20mm treinforced concrete ring beam 11.4.36 Namm mild round steel links at ditto 11.4.37 Reinforced concrete ring 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 soffites of t			SIVI	25.50		-
111.1.27 Concrete blinding in pad foundation 75mm thick Sawn formwork as described to; 114.19 Sides of concrete columns 114.20 Sides and soffites of the slab 114.28 Y16mm diameter cold worked square twisted bars at including bends, hooks, binding wire in the beam to Engineer's Approval 114.29 8mm mild round steel links at ditto 114.29 8mm mild round steel links at ditto 114.29 Superstructure Approved brickwall in cement-mortar (1:4) 114.20 Concrete footing of columns CM 3.10 Concreting to stub columns CM 3.10 Concreting to stub columns CM 1.20 SUPERSTRUCTURE Approved brickwall in cement-mortar (1:4) 114.30 Super structure st	44.440			05.00		
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11.4.20 Sides of Foundations m² 3.20 - Columns						
Columns Y16mm diameter cold worked square twisted bars at including bends, hooks, binding wire in the beam to Engineer's Approval Superstructure Supers						
11.4.28 Y16mm diameter cold worked square twisted bars at 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) - 11.4.40 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 - 11.4.32 Sawn formwork as described to; Sides and soffites of reinforced concrete beam m² 1.56 - 11.4.34 Reinforced concrete 1:2:4 in: - 11.4.35 Zomm reinforced concrete ing beam m³ 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 reinforced concrete slab m² 15.54 - Reinforcement bars to BS 4449 as described in reinforced concrete slab reinf	11.4.20		m²	3.20		-
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 11.4.37 Smm 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 11.4.39 Sides and soffites of the slab Reinforcement bars to BS 4449 as described in reinforced concrete slab 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 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		
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of the Engineer. 11.1.30 Concreting to columns FINISHING Cement Sand (1:4) plaster as described; 11.1.41 20mm thick 1:3 cement sand plaster on internal walls m² 27 64			m³	1.55		-
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						-
	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)
		0		Cimi riuio (CCri,	7
11.1.42	20mm thick 1:3 cement sand plaster on external walls (external surfaces)	m²	33.24		-
11 4 46	Cement-sand screed (1:3) as described;				_
11.4.47					
	of the vaults and ramp, and finish smooth with a steel	m²	15.54		-
	float using cement grout				
	PAINTING				-
11.4.48					
	silk emulsion paint to the surface brick plastered	m²	51		-
	including celling paint				
11.4.49	Ditto the external wall	m²	31		-
	Semisolid Door as per drawing including paint	No	1		-
	Metallic bugler Window including paint	No	2		-
	e Guard house				0.0
	d to summary page (3 no.) SCHEME EQUIPMENT				0.0
11.5			0.00		E
11.5.1	Supply of motor bikes	Nr	2.00		-
11.5.2	11 7	Nr	5.00		-
11.5.3	Provide personal office computers for scheme use as per specification	Nr	4.00		-
11.5.4	Supply office printer for the use of the scheme as per 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	P.Sum	1.00	20,000,000	20,000,000.00
	accordance with section specification				
11.5.7	Provisional sum for technical training	P.Sum	1.00	25,000,000	25,000,000.00
11.5.8	transfer	Nr	4.00	90,000,000	360,000,000.00
11.5.9	under 12.2.7 and 12.2.8 above	%	10.00		
	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	Nr	180		_
	with project name as directed by the Engineer		100		
11.6.2					
	of Irrigation block mark stones, engraved with the	Nr	85		-
	block name as specified in the drawing as directed by the Engineer				
11.6.3	, ,				
11.0.5	of Aluminium staff gauge with 4mm thickness	Nr	76		_
	specified in the drawing and as directed by the				
Total carrie	d to summary page			•	0.0

ILL NO 12	SCHEME BUILDING AND FACILITIES			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	Common excavation in Stone Masonry foundation	<u> </u>	0_0		
	trench to a depth not greater than 2.0 meters. The	Cum	160		
	work includes dewatering, protection and all	Cum			
12.1.3	Bulk Excavation in normal soil	Cum	272		
12.1.4	Extra over for item 1.2 to 1.3for Excavation in soft	Cum	42		
12.1.5	Extra over for item 1.2 to 1.3for Excavation in hard	Cum	42		
12.1.6	Cart away all surplus excavated material from site to	Ouiii			
	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	Cum	170		
	layer shall be 200mm thick.				
12.1.8	Anti-termite treatment on tops of hardcore surfaces		475		
	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	Sqm	175		
	with crushed stones.	•			
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	Kg	1750		
	reinforcement bars shall be 400MPA.				
12.1.12	Placing formwok for for grade beam, top tie beam,				
12.1.12	column, edge of slab etc,	Sqm	130		
12.1.13	100mm thick Class C-10 lean concrete over the hard				
12.1.10	core incl below foundation.	Sqm	233		
12.1.14	150mm thick Class C-25 Concrete in floor slab	Sqm	170		
12.1.15		Cum	15.2		
12.1.16	Damp proof membrane of 500 gauge polythene	Cuiii	13.2		
12.1.10	damp proof membrane including 300mm laps	Sqm	200		
12.1.17					
12.1.17	Bituminous felt damp proof course: 150mm wide,	lm	110		
	200mm laps WALL				
12.1.18					
12.1.10	Supply and Place 200mm thick HCB for External Wall, as shown in the drawing. The binding	Cam	170		
		Sqm	170		
10 1 10	material shall be cement sand mortar in the ratio of				
12.1.19		0	440		
	as shown in the drawing . The binding material shall	Sqm	110		
	be cement sand mortar in the ratio of 1:3.				
40.4.00	Floor and Wall Finishing Work				
12.1.20	· ·	Sqm	170		
10.1.01	smooth finish to external wall as directed				
12.1.21	Three coats of wall plastering to internal walls in	Sqm	400		
40.4.00	smooth finish	•			
12.1.22	Prepare surfaces: apply three Coats"Sadolin" or any	Sqm	170		
	approved Synthetic paint to externa wall	1···	1		
12.1.23		Sqm	400		
	approved silk vinyl paint to internal wall	~ 1			
12.1.24	Three coats of ceiling paint "Sadolin" or any	_			
	approved water paint in smooth finish with all	Sqm	180		
	necessary works including fascia board.		I		

12.1.25	PVC 3mm thick Tile floor finish layed over 48mm			
12.1.20	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	-
	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 A252	Sqm	52	_
	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,		40	
	architrave and all necessary work as described in	No.	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		_	
	frame, architrave and all necessary works as	No.	3	- I
	described in the drawing and schedule and approved			
12.1.30	Supply and Fix in Position window, W1			
	(2530x1600mm) LTZ framed, grilled and glazed with	NIa	40	
	4mm glass as described in the drawing and schedule	No.	12	- I
	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	1	-
	made well seasoned to avoid warping because of			
	unsatifactory seasoning time. The Work shall include			
	all necessary work to fix the truss and purlin in			
12.1.33	Supply and fix 8mm thick chipwood ceiling including			
	50mmx40mm battens at a spacing of 600mm in both	Sqm	170	-
	directions.			
12.1.34	117 71 1			
	sheet roofing cover including fixing to the truss	Sqm	260	-
	members, ridges and valleys.			
12.1.35	Supply and Fix Timder Facia Board of Size	m	90	_
	250x25mm including oil paint to prevent twisting and	•••		
12.1.36	Supply and fix Fix Gutter & Down Pipe for two office			
	blocks manufactured out of Gage -30 galvanized	LS	1	_
	sheet metal including all accessories and welding for			
Total camin	fixing in position.			
i otal carrie	d to summary page			0.0
12.2	DECIDENTIAL DUIL DING			
12.2	RESIDENTIAL BUILDING			
12.2.1	Earthwork & Masonry Foundation Strip top soil to an average depth of 200mm.	Sqm	750	
12.2.1	Common excavation in Stone Masonry foundation	Sqiii	750	
12.2.2	trench to a depth not greater than 2.0 meters. The	Cum	200	
	work includes dewatering, protection and all	Guill	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	Extra over for item 1.2 to 1.3for Excavation in hard	Cum	50	
12.2.0	Emia ovor for item 1.2 to 1.0101 Expavation in flata	Cuiti		

12.2.6	Cart away all surplus excavated material from site to a distance not less than one kilometer.	Cum	550		
40.07					
12.2.7	Fill and compact selected granular material for 95% of proctor density layer by layer and each compacted	Cum	170		
	layer shall be 200mm thick.				
12.2.8	Anti-termite treatment on tops of hardcore surfaces and sides and bottoms of excavation	sqm	175		-
12.2.9	250 mm thick basaltic stone or equivalent hard core				
12.2.3	filling over the selected fill, compaced and blinded	Sqm	170		-
	with crushed stones.				
12.2.10	500mm thick Stone masonry Wall costruction	Cum	66		
	ncrete Work				
12.2.11	Cut, Place in position and tie deformed				
12.2.11	reinforcement bars as per the drawing and the minimum tensile yeilding strength of the	Kg	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,	- 1			
12.2.13	100mm thick Class C-10 lean concrete over the hard core incl below foundation.	Sqm	170		-
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 damp proof membrane including 300mm laps	Sqm	225		
12.2.17	Bituminous felt damp proof course: 150mm wide,	lm	130		-
	200mm laps				
WA					
12.2.18	Supply and Place 200mm thick HCB for External				
	Wall, as shown in the drawing . The binding material shall be cement sand mortar in the ratio of	Sqm	125		-
12.2.19	Supply and Place 150mm thick HCB for partion Wall,				
	as shown in the drawing . The binding material shall	Sqm	68		
	be cement sand mortar in the ratio of 1:3.	Oqiii	00		
Flo	oor and Wall Finishing Work				
12.2.20	Two Coats of Plastering and one coat rendering or				
12.2.20		Sqm	130		
10.0.01	smooth finish to external wall as directed				
12.2.21	Three coats of wall plastering to internal walls in	Sqm	270		
10.0.00	smooth finish	•			
12.2.22	Prepare surfaces: apply three Coats"Sadolin" or any approved Synthetic paint to externa wall	Sqm	130		-
12.2.23	Prepare surfaces: apply three Coats "Sadolin" or any		070		
	approved silk vinyl paint to internal wall	Sqm	270		
12.2.24	Three coats of ceiling paint "Sadolin" or any				
	approved water paint in smooth finish with all	Sqm	165		
	necessary works including fascia board .	- 4			
12.2.25	PVC 3mm thick Tile floor finish layed over 48mm				
12.2.25	thick cement screed	Sqm	165		
12.2.26	Supply & Fix in position for Terarazzo Tile Window				
12.2.20	• • • • •	ml	30		
12.2.27	Sill, Cross Sectional area of the tile is 250mmx25. Provide and fix ceramic floor tile for toilets with all				
12.2.27					
	necessary work. The ceramic floor tiles : bedded and	Sqm	14		
	jointed in approved adhesive : pointed with 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	Sam	33		
	and jointed in approved adhesive : pointed with	Sqm	33		
				•	·
	approved coloured grout : to with all necessary work				

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 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	Sqm	65	-
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 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	sqm	40	-
12.2.31	Provide truss and supply and fix gauge-28 galvanised iron sheet roofing for walkway including 4x2inch rafterand 70mmx50mm purlin as shown in the drawing& specification and directed by the	Sqm	40	-
	Door , Widow and Roofing Works			-
12.2.32	Supply and Fix in Position door, D1 (2000 x 2800 mm) solid wodden or equivalent including frame, architrave and all necessary works as described in the drawing and schedule and approved by the	No.	2	-
12.2.33	Supply and Fix in Position door, D2 (900 x 2800 mm) solid wodden or equivalent including frame, architrave and all necessary works as described in the drawing and schedule and approved by the	No.	11	-
12.2.34	Supply and Fix in Position door, D4 (700x2800mm) solid wodden or equivalent including frame, architrave and all necessary works as described in the drawing and schedule and approved by the	No.	5	-
12.2.35	Supply and Fix in Position window, W3 (2000x1600mm) LTZ framed, grilled and glazed with 4mm glass as described in the drawing and	No.	11	-
12.2.36	Supply and Fix in Position window, W5 (600x750mm) LTZ framed and glazed with 4mm glass as described in the drawing and schedule.	No.	5	-
12.2.37	Roof and Ceiling 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 made well seasoned to avoid warping because of unsatifactory seasoning time. The Work shall include all necessary work to fix the truss and purlin in	LS	1	-
12.2.38	Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions.	Sqm	165	-
12.2.39	Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys.	Sqm	280	-
12.2.40		m	115	-

12.2.41	Supply and fix Fix Gutter & Down Pipe for two office				
	blocks manufactured out of Gage -30 galvanized				
	sheet metal including all accessories and welding for	LS	1		
	fixing in position.				
Total carrie	d to summary page			<u> </u>	0.
	71.0				
12.3	STORAGE BUILDING				
	EARTHWORK				
12.3.1	Site clearance of construction area	SM	4000		
12.3.2	Exacavate to reduce levels average 200mm deep to	СМ	2550		
	remove vegetable soil and cart away from site	Civi	2550		
12.3.3	Exacavate to reduce levels average 2meter deep to	СМ	3160		
	remove vegetable soil and cart away from site	Civi	3100		
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	2000		
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	1030		
	hardcore under a concrete slab				
12.3.8	Remove surplus excavated materials from site to	СМ	200		
	where irected as per the regulations of the council.				
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	SM	1700		
	200mm laps	Olvi	1700		
	Concrete				
12.3.12	Reinforcement Diameter 10 @c/c 20cm bothways on	Kgs	400		
	floor slab				
12.3.13	150mm thick C-25 concrete floor slab	SM	1700		
12.3.14	Concrete 5-10 blinding in pad foundation 75mm thick	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	o , , o	Sqm	310		
	edge of slb		0.0		
12.3.19	Mild BS 4483 and High tensile steel BS 4464				
	reinforcement bars with binding wire as described:				
а	8mm	Kgs	750		
b	10mm	Kgs	920		
С	14mm	Kgs	1100		
d	16mm	Kgs	1400		
3	SUPERSTRUCTURE				
	STRUCTURAL WORKS				

12.3.20	Framed structural steel work Comprising portal				
	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				
12.3.21	ROOFING 26 Gauge,Blue painted Super Eco profile roofing			1	-
12.3.21	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,				
12.3.22	roof screws and all necessary fittings				
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 drilling screws,	Sqm	1350		-
	flashings and all fixtures necessary for erection. It				
	also comprise of cladding rails, anti-sag bars and				
40.0.00	including all fixtures necessary for erection	LM	220		
12.3.23 12.3.24	Fascia boards 4m length (190mmx30mmx1mm)	LIVI	220		-
12.3.24	Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both	Sam	100		
	directions.	Sqm	100		-
12.3.25	Provide Rainwater harvesting Comprising eaves				
12.3.23	gutters made from 1.5mm thick pre galvanized				
	plates, PVC down pipes, gutter brackets and all	LS			-
	fixtures necessary for erection				
12.3.26	Allow a sum for fibre Glass Translucent Sheets				
12.3.20	comprising 1 sheet per slope per 2 bay in 1mm thick				
	fiberglass UV protected 3.5m long milky finish type			1	
	(Subject to slight tint variations) translucent sheets,				
	and all fixtures necessary for erection. Safety	LS			
	Frames under each translucent sheet, comprising	LO			
	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 provission of Roof Ventilator comprising				
12.5.27	CYCLONE 600 Series (1 No. per 4 bays) near the				
	apex consisting of galvanized steel components	LS			-
	including all fixtures necessary for erection				
	BLOCK WORK				
12.3.28	230mm thick using solid block wall,mild steel laid to			1	-
12.3.20	form alternate courses of headers and stretchers, laid	SM	500		_
	on and incl.mortar ratio 1:3, Th	Civi	300		
	on and monmortal fault 1.0, 111		I	L	1

40.0.00	450		1	ı	
12.3.29	,				
	form alternate courses of headers and stretchers, laid	SM	35		-
	on and incl.mortar ratio 1:3, Th				
	WALL FINISHES				-
12.3.30	·	SM	610		_
	(internal surfaces)				
12.3.31	20mm thick 1:3 cement sand plaster on external	SM	500		_
10.000	walls (external surfaces)				
12.3.32	12mm cement sand (1:4) screeds to smooth finished	SM	1700		-
12.3.33		SM	500		_
10001	approved Synthetic paint to externa wall				
12.3.34		SM	610		-
40.005	approved silk vinyl paint to internal wall				
12.3.35		014	400		
	approved water paint in smooth finish with all	SM	100		-
40.0.00	necessary works including fascia board .				
12.3.36		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				
	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				
	the slidng gate and make it operational as per the				
40.0.00	instruction and approval given by the Engineers				
12.3.38	, ,				
	mm) solid wodden or equivalent including frame,	No	8		-
	architrave and all necessary works as described in				
40.0.00	the drawing and schedule and approved by the				
12.3.39	, ,				
	mm) door or equivalent including frame, architrave	No	4		-
	and all necessary works as described in the drawing				
40.0.40	and schedule and approved by the Engineer.				
12.3.40	117				
	(1800x1200mm) LTZ framed, grilled and glazed with	No	1		-
	4mm glass as described in the drawing and schedule				
40.0.44	and approved by the Engineer.				
12.3.41	Supply and Fix in Position window, W2				
	(1250x1200mm) LTZ framed, grilled and glazed with		4		-
	4mm glass as described in the drawing and schedule				
12.3.42	and approved by the Engineer. Supply and Fix in Position window, W3				
12.3.42	• • •				
	(600x1200mm) LTZ framed, grilled and glazed with	No	3		-
	4mm glass as described in the drawing and schedule				
L	and approved by the Engineer. WATER SUPPLY and SANITORY WORKS				
12.3.43					
12.3.43	plumbing system, sanitary fittings (four WC, three				
	Handwash basin, two water points), all necessary	LS			
	plumbing works, connection to the water tank and all	LO			
	necessary as directed and approved by the Engineer				
12.3.44					
12.0.44	line. The work includes supply and fix four WC &				
1	three Hand Wash basin, internal plumbing system,				
	two water point, waste water connection, connection	LS			
	to the water tank and septic tank and all necessary				
	works as directed and approved by the Engineer				
	works as unected and approved by the Engineer		l		ļ

12.3.45	Allow a sum for water tank stand and water tank of				
	2000lt capacity including inlet, outlet, float valve and				
	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				
12.5.40	according to drawing. Include for water proof cement				
	rendering, benching, fittings and smoothening of	LS			
	channels etc as specified and directed on site. The				
	work includes construction of soakpit				
	ELECTRICAL INSTALLATION				
12.3.47	Allow for electrical installation. The work includes				
	wiring, placing lightining fixtures, sockets, switches,				
	security lights, consumer units and all necessary	LS			
	electical fixtures and material to make the light				
	system operational as directed and approved by the				
12.3.48	Allow for exetension of the power line to main	LS			
	government line	2			
	GENERAL				
12.3.49	Allow 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	LS			
	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.				
Total carrie	ed to summary page				0.0
Total carrie	to summary page			I	0.0
12.4	COMPOUND WORK				
14.4	COMIT COME WORK				
	Compound Payement				
12 // 1	Compound Pavement Strip top soil to an average depth of 200mm	Sam	2250		_
12.4.1	Strip top soil to an average depth of 200mm.	Sqm	2250		-
12.4.1 12.4.2	Strip top soil to an average depth of 200mm. Bulk Excavation in normal soil to receive murrum	Sqm Cum	2250 470		-
12.4.2	Strip top soil to an average depth of 200mm. Bulk Excavation in normal soil to receive murrum and sand for paver				-
	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%				-
12.4.2	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.	Cum	470 2200		-
12.4.2 12.4.3 12.4.4	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	Cum	470		-
12.4.2	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	Cum	470 2200		-
12.4.2 12.4.3 12.4.4 12.4.5	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	Cum Sqm Sqm	470 2200 2200		-
12.4.2 12.4.3 12.4.4	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 Cart away all surplus excavated material from site to	Cum Sqm Sqm	470 2200 2200		- - - - -
12.4.2 12.4.3 12.4.4 12.4.5	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 Cart away all surplus excavated material from site to a distance not less than one kilometer.	Cum Sqm Sqm Sqm	470 2200 2200 2200		-
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate	Cum Sqm Sqm Sqm	470 2200 2200 2200		-
12.4.2 12.4.3 12.4.4 12.4.5	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate Supply and erect Chain link of gauge 10 pitch size	Cum Sqm Sqm Sqm	470 2200 2200 2200		- - - - -
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate Supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top	Cum Sqm Sqm Sqm	470 2200 2200 2200		-
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate 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	Cum Sqm Sqm Sqm	470 2200 2200 2200		-
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate 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	Cum Sqm Sqm Sqm	2200 2200 2200 2200 800		-
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate 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	Cum Sqm Sqm Sqm	470 2200 2200 2200		-
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate 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 at every 2.5m and all necessary material to fix	Cum Sqm Sqm Sqm Cum	2200 2200 2200 2200 800		-
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate 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 at every 2.5m and all necessary material to fix chainlink, GI pipe post and babedwire as per the	Cum Sqm Sqm Sqm Cum	470 2200 2200 2200 800		-
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate 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 at every 2.5m and all necessary material to fix chainlink, GI pipe post and babedwire as per the drawing and directed by the Engineer. It includes	Cum Sqm Sqm Sqm Cum	470 2200 2200 2200 800		-
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate 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 at every 2.5m and all necessary material to fix chainlink, GI pipe post and babedwire as per the drawing and directed by the Engineer. It includes also intermediate, corner and bracing pipes as	Cum Sqm Sqm Sqm Cum	470 2200 2200 2200 800		- - - - -
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate 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 at every 2.5m and all necessary material to fix chainlink, GI pipe post and babedwire as per the drawing and directed by the Engineer. It includes also intermediate, corner and bracing pipes as Supply and fix gates of two leaves 7m clear opening	Cum Sqm Sqm Sqm Cum	470 2200 2200 2200 800		-
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate 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 at every 2.5m and all necessary material to fix chainlink, GI pipe post and babedwire as per the drawing and directed by the Engineer. It includes also intermediate, corner and bracing pipes as	Cum Sqm Sqm Sqm Cum	470 2200 2200 2200 800		-
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate 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 at every 2.5m and all necessary material to fix chainlink, GI pipe post and babedwire as per the drawing and directed by the Engineer. It includes also intermediate, corner and bracing pipes as Supply and fix gates of two leaves 7m clear opening	Cum Sqm Sqm Sqm Cum	470 2200 2200 2200 800		-
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate 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 at every 2.5m and all necessary material to fix chainlink, GI pipe post and babedwire as per the drawing and directed by the Engineer. It includes also intermediate, corner and bracing pipes as Supply and fix gates of two leaves 7m clear opening between and including 300mmx300mm reinforced	Cum Sqm Sqm Sqm Cum	470 2200 2200 2200 800		-
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate 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 at every 2.5m and all necessary material to fix chainlink, GI pipe post and babedwire as per the drawing and directed by the Engineer. It includes also intermediate, corner and bracing pipes as Supply and fix gates of two leaves 7m clear opening between and including 300mmx300mm reinforced concrete posts. Gates to be fabricated from	Cum Sqm Sqm Sqm Cum	470 2200 2200 2200 800		-
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate 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 at every 2.5m and all necessary material to fix chainlink, GI pipe post and babedwire as per the drawing and directed by the Engineer. It includes also intermediate, corner and bracing pipes as Supply and fix gates of two leaves 7m clear opening 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	Sqm Sqm Sqm Cum	470 2200 2200 2200 800		-
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate 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 at every 2.5m and all necessary material to fix chainlink, GI pipe post and babedwire as per the drawing and directed by the Engineer. It includes also intermediate, corner and bracing pipes as Supply and fix gates of two leaves 7m clear opening 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 approved paint extensions 300mm high on top.	Sqm Sqm Sqm Cum	470 2200 2200 2200 800		
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate 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 at every 2.5m and all necessary material to fix chainlink, GI pipe post and babedwire as per the drawing and directed by the Engineer. It includes also intermediate, corner and bracing pipes as Supply and fix gates of two leaves 7m clear opening 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 approved paint extensions 300mm high on top. Whole to be covered (Gate to be provided with	Sqm Sqm Sqm Cum	470 2200 2200 2200 800		
12.4.2 12.4.3 12.4.4 12.4.5 12.4.6	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 Cart away all surplus excavated material from site to a distance not less than one kilometer. Fence work and Gate 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 at every 2.5m and all necessary material to fix chainlink, GI pipe post and babedwire as per the drawing and directed by the Engineer. It includes also intermediate, corner and bracing pipes as Supply and fix gates of two leaves 7m clear opening 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 approved paint extensions 300mm high on top.	Sqm Sqm Sqm Cum	470 2200 2200 2200 800		

40.40	Cupply and construct 4m width madestrian stack with			I	1
12.4.9	Supply and construct 1m width pedestrian steel gate between the fence of Office and accomodation area	Ma	4		
		No	1		-
	as approved and directed by the Engineer in charge				
12.4.10	Water Tank Stand				-
12.4.10	• • •				
	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	No	1		_
	in all respect.Including installation the two 10,000lt				
	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				
	and instructed by the Engineer in charge				
	Toilet at Block E				-
12.4.13					
	drawing and instructed & directed by the Engineer.				
	The work includes necessary earth work, Foundation				
	masonry wall, Grade beam, hardcore, slab, wall, 3	LS			-
	coat of plastering, 3 coat of painting, ceiling, Roof				
	work, and all necessary work as per the drawing.				
12.4.14					
12.7.17	necessary work. The ceramic floor tiles : bedded and				
	jointed in approved adhesive : pointed with approved	Sqm	20.2		-
	coloured grout : to with all necessary work				
12.4.15					
12.4.13	height for toilets. The ceramic floor tiles: bedded				
		Sqm	46		-
	and jointed in approved adhesive : pointed with				
	approved coloured grout : to with all necessary work				
40.440	General work				-
12.4.16	11 7				
	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		LS			_
Total cami	drawing and directed and approved by the Engineer				
i otal carrie	ed to summary page				0.0
10.5	WATER CURRILY AND CANITARY				
12.5	WATER SUPPLY AND SANITARY				
	Water Supply			<u> </u>	l

12.5.1	Supply, install, connect, test and commission set to work the following all as described in the Specifications and Drawings.	P.SUM	1	100,000,000	100,000,000
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 the the bottom of 60m also perform test pumping 48hrs + 2hr step tests Supply and installation 5" pedestal plus a motorized pump platform	P.SUM	1	150,000,000	150,000,000
12.5.3	Construct pump house complete as given in the drawings; include all earthwork, building work, concrete works, plumbing, drains e.t.c as detailed.	LS	1		
12.5.4	Supply and install submersible solar pump with required out put of Q = 10m3/day. and H=100m, complete with dry running protection.	Nr	1		
12.5.5	AC pump controller to run the pump with Q = 10m3/day. and H=100m.	Nr	1		
12.5.6	330Wp Mono crystalline Solar Panel, optimum voltage 34 – 38V, current 8-9 Amps	Nr	10		
12.5.7	SOLAR PANEL MOUNTING GALVANIZED STRUCTURE complete with Metallic structures and civil platforms, 3 m off the ground for solar panels.	LS	10		
12.5.8	AUXILLIARY LIGHTING SYSTEM WITH 75Wp,panel, 5Amp Regulator, 55AH Battery, 3LED Lights, Battery Box, Panel mount frame, light fixtures and cabling and accessories	LS	1		
12.5.9	DROP CABLE 4mm2×4CORE,FLAT CABLE	m	20		
12.5.10	ELECTRODES (PAIR)	nr	2		
12.5.11	0.75mm2 ELECTRODE CABLE	m	20		
12.5.12	2" GI Pipe	m	10		
12.5.13	EARTHING SYSTEM (25mm2 earth wire, copper mat, copper clamp, concrete earth pit & conductivity improvement materials)	LS	1		
12.5.14	ELECTRICAL ACCESSORIES FOR INSTALLATION: cable tray Trunking about 5m, 6mm2 Underground (U/G) cable 40m includes all electricals for generator installations	LS	1		
12.5.15	Fittings (4no. 2"Gl bends, 4 no. 2"Gl nipples, 4no. Gl Tees, 1 No. 2"water meter (dry type), 3 No. 2"HDPE adapters, 1no. 2"Air valve, 3no. 2"Gl unions, 2 no. Global valve, 1 no.1/2" pressure gauge, 1 no. pressure sensor complete with switch.	LS	1		
12.5.16	Provide and lay machine crushed stone aggregate of size 25mm for a layer of thickness 50mm placed on top of gauge 1000dpm within the area covered by solar array.	sqm	150		
	Internal Plumbing				
	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.				
12.5.17	1/2inch GI pipe or PPR cold water Pipe work	m	100		-
12.5.18	3/4inch GI pipe or PPR cold water Pipe work	m	75		-
	External Plumbing				-

40 5 40	Overally and installable assessment and the te			ı	
12.5.19	Supply and instal all necessary pipe works to				
	connect to the internal plumbing line. All pipe work				
	shall be PPR diameters of 3/4inch or 1inch as		000		
	instructed by th Engineer. All external pipe works	m	200		-
	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.				
12.5.20	HDPE or other approved pipe PN16 water supply				
	line from government water main complete up to the	LS	1		-
	water tank with all accessories, fittings.				
12.5.21	Supply line of 3/4inch or 1inch as approved by the				
	Engineer from the water tank to the required places	m	100		-
	(kitchen, toilets, garden, at necessary points)				
12.5.22	Water points around the compound including taps,				
	gatevalves and all necessary works as approved by	No	5		-
	the Engineer				
	Water Tank				
12.5.23	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, mounted	LS	1		-
	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.				
12.5.24	50mm PVC .	m	100		_
12.5.25	110mm PVC	m	35		
12.5.25	Sanitory Fittings	111	35		_
12.5.26	Supply & fix 600x400mm ceramic hand wash basin				-
12.5.20	including all accessories and fittings	No	13		-
12.5.27					
12.3.27	Supply & fix flush type ceramic WC. Incuding all	No	13		-
40.5.00	accessories & fittings				
12.5.28	White enamelled fireclay shower tray				
	800x780x110mm as TWYFORDS CALYPSO 2 800				
	complete with chrome plated shower pipe concealed	No	9		-
	in wall complete with 100mm diameter fixed shower				
	head, control valve and bib tap and complete with				
12.5.29	Toilet roll holder complete with fixing to the wall.	No	13		-
12.5.30	6mm glass plate mirror size 610x475mm with	No	5		_
	bevelled edges complete.	140	Ŭ		
12.5.31	6mm glass plate mirror size 400x475mm with	No	4		_
	bevelled edges complete.	140			
12.5.32	Kitchen Sink double bowl single drain stainless steel				
	for mounting in worktop, complete with bottle trap,	No	2		-
	bib tap and all accessories.				
12.5.33	Chrome plated rail 600mm long, 20mm diameter	NI-	_		
	complete with fixing to the wall to approval	No	9		-
12.5.34	Soap dish	No	9		-
12.5.35	Contractor's handling charge on all provisional sums		00.00		
	under items 12.5.1 and 12.5.2	%	20.00		-
Total carrie	d to summary page				
I	, , ,				
12.6	ELECTRICAL WORK		1		
			1	1	1

			ſ		
12.6.1	Supply, install, connect, test and commission set to work the following all as described in the	P.SUM	1	50,000,000	50,000,000
12.6.2	Specifications and Drawings. Supply, install, connect, test and commission Solar lighting set for the entire administration and accommodation area	P.SUM	4	15,000,000	60,000,000
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 ten out going MCB's as per the drawing all as to L & T or equal	No.	6		-
12.6.4	3 core x 16mm ² PVC/SWA/PVC 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).	m	100		-
12.6.5	Wiring and Installation of light point, from the respective consumer unit using 3 x 1.5 mm ² 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 ceiling should be flexible and the one running along wall should be rigid type and concealed.	No.	20		
12.6.6	Supply and installation of 4 x 14 W T5 fluorescent lamp fitting with parabolic mirror louver	No.	50		-
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 mm ² 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 rigid type and concealed. For the following switches	No.	20		
12.6.8	6A 1 gang 2 way moulded switch as MK or equal approved.	No.	12		-
12.6.9	6A 2 gang 2 way moulded switch as MK or approved equal.	No.	15		-
12.6.10	6A 1 gang 1 way moulded switch as MK or equal approved.	No.	20		-
12.6.11	6A 2 gang 1 way moulded switch as MK or equal approved.	No.	3		-
12.6.12	Supply and Installation of socket outlet fixed on wall, wired in ring circuit from the respective Consumer Unit using 3 x 2.5 mm ² 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 within the ceiling should be flexible and the one running along wall should be rigid type and concealed. For the following socket	No.	75		-
12.6.13	13A 1gang socket outlet as MK or equal complete with all accessories on walls or Trunking.	No.	75		-
12.6.14	Internet/Telephone points in 25mm PVC conduits from one Central point complete (Conduit wolrk	No.	9		-

12.6.15	Wiring to cooker control unit by 3 × 6 mm2 PV-CL			
12.0.13	copper cables in concealed conduits complete with	No.	1 1	
	cooker control unit as MK and all accessories	INO.	'	_
12.6.16				
12.0.10	under items 12.6.1 and 12.6.2	%	10.00	-
Total carrie	ed to summary page			
Total Carrie	l l summary page		1	
12.7	DRYING PLATFORM (2 NO.)			
12.7	EARTH WORK			
12.7.1	Excavation in ordinary soil and cart to spoil	m3	138.6	_
12.7.2	Excavation for strip foundation	m3	28.416	_
	CONCRETE WORK	1110	20.110	
	Plain Concrete			
12.7.3	Provide and place well vibrated reinforced concrete			
12.7.0	grade C15 for strip foundation blinding (50mm thick)	m3	1.776	-
12.7.4	Provide and place well vibrated reinforced concrete			
12.7.1	grade C25 for strip foundation (200mm thick)	m3	7.104	-
	Reinforced concrete			
12.7.5	Provide and place well vibrated reinforced concrete			
	grade C25 for slab (150mm thick)	m3	30	-
	Masonry			
12.7.6	Erect 200mm thick approved brick wall in Cement			
	sand mortar (1:4) up to a height as indicated in the	m2	47.36	_
	drawings for the rice drying platform			
12.7.7	Provide masonry anchors every two courses using		1	
	galvanised mild steel ties to BS1243,1978	Rmt	119.2	-
	Backfill			
12.7.8	Supply and place well compacted murram	m3	112.448	-
	Sand blinding			
12.7.9	Provide and place 50mm sand blinding	m3	9.408	-
12.7.10			000 500	
	450mm laps as joints	m2	203.508	-
	Reinforcement			
12.8.11	Supply and fix a BRC (Wire mesh) of size A142	m2	206	-
	CONCRETE ANCILLARIES			
	Form work; fair finish			
	Plane and Vertical formwork for slab edges			
12.8.12	Width 0.2m	m2	12	-
	Plaster Finishes			
12.8.13	20mm thick 1:3 Cement Sand Plaster on External	m2	48.16	
	walls (External Surfaces)	1112	40.10	
	ed to summary page (1NO.)			0.0
Total carrie	ed to summary page (2NO.)			0.0