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

SIPI 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	-			
1.90	Environmental and Social Mitigation Activities	-			
1.10	Health and Safety Protection / Mitigation Activities	-			
	Total, Preliminaries and General Items	-			
2	HEAD WORKS				
2.1	Diversion Weir	-			
2.2	Intake Structure	-			
2.3	Settling Basin	-			
	Total, Head works	-			
3					
3.1	Lined Canal	-			
3.2	Structures and associated works				
3.2.1	Drop Structures	-			
3.2.2	Main Canal Crossing Structures	-			
-	Total, Main Canal	•			
4					
4.1	Storage Tank	-			
4.2	Inlet Structure	-			
4.3	Outlet structure	-			
4.4	Spillway structure	-			
_	Total, Night Storage	-			
5					
5.1		-			
5.2	Structures and associated works				
5.2.1		-			
5.2.2	Cross and Head regulator structures	-			
5.2.3	Total Secondary Canals	-			
6		•			
0					
0.1	Structures and Associated works	-			
0.2					
0.2.1					
0.2.2	Total Tertiary Canals	-			
7					
71					
7.1	Structures and associated works				
1.2					
7.2.1	Outfall Structures				
1.2.2					

SIPI IRRIGATION SCHEME INFRASTRUCTURE AND FACILITIES				
BILL SUMMARY				
7.2.3	Pipe Culvert Structures	-		
	Total, Secondary Drain	-		

SIPI IRRIGATION SCHEME INFRASTRUCTURE AND FACILITIES				
	BILL SUMMARY			
8	TERTIARY DRAINS			
8.1	Unlined drain	-		
8.2	Structures and Associated works			
8.2.1	Outfall structures	-		
	Total, Tertiary Drain	-		
9	FLOOD PROTECTION WORKS			
9.1	Flood Protection Dyke	-		
9.2	Escape Canal	-		
9.3	River Dredging	-		
	Total, Flood Protection Works	-		
10	STEEL WORK/HYDRO MECHANICAL GATES			
10.1	Main Canal Gates	-		
10.2	Storage Tank Gates	-		
10.3	Secondary-1 Gates	-		
10.4	Secondary-2 Gates	-		
10.5	Field Turnout Gates	-		
	Total, Steel Work/Hydro Mechanical Gates	-		
11	ACCESS AND SCHEME ROADS			
11.1	Access Road	-		
11.2	Main and Secondary Canal Road	-		
11.3	Pipe Culvert Structures	-		
	Total, Access and Scheme Roads	-		
12	IRRIGATION INFRASTRUCTURE FACILITIES			
12.1	Livestock Watering (6 n <u>o</u> .)	-		
12.2	Sanitation Facility (10 n <u>o</u> .)	-		
12.3	Farm Shed (10 n <u>o</u> .)	-		
12.4	Guard House (3 n <u>o</u> .)	-		
12.5	Scheme equipment	-		
12.6	Boundary and Irrigation Mark Stones, Staff Gauge	-		
	Total, Irrigation Infrastructure Facilities	-		
13	SCHEME BUILDING AND FACILITIES			
13.1	Office Block	-		
13.3	Residential Building	-		
13.4	Storage Building	-		
13.5	Compound Work	-		
13.6	Water Supply and Sanitary	-		
13.7	Electrical Work	-		
13.8	Rice Drying Platform (2 n <u>o</u> .)	-		
	Total, Scheme Building and Facilities	-		
	SUM TOTAL	-		
	CONTINGENCY(5%)	-		
	TOTAL	-		

BILL NO. 1: PRELIMINARIES & GENERAL ITEMS		BOQ			
Bill No.	DESCRIPTION	UNIT	Q'TY	Unit Rate (UGX)	AMOUNT (UGX)
1.1	CONTRACTUAL REQUIREMENTS				
1.1.1	Performance security clause	sum	1.00		-
1.1.2	Advance payment guarantee	sum	1.00		-
1.1.3	Insurance of works	sum	1.00		-
1.1.4	Third party insurance	sum	1.00		-
1.1.5	Insurance of Contractors Plant/equipment	sum	1.00		-
Total carrie	d to summary page				-
1.2	SPECIFIED REQUIREMENTS				
101	Site Offices and Housing				
1.2.1	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.	2.00		-
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;	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	d 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	Provide laptops for supervision staff use as per specification	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	Maintenance of Engineer's office including office furniture & equipment	month	24.00		-
	Attendance upon the Engineer's staff				-
1.4.6	Unskilled labour	month	24.00		-
1.4.7	Technician/Draftsman	month	12.00		-
1.4.8	Secretary	month	24.00		
Total carrie	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				
	nroctor - Use of a 2 5kg				
	rammer to BS 1377				
	- Use of a 4 5kg rammer to BS 1377				
	(e) Testing of Clay and Gravel (murram) material	Sum	1.00		-
	from different Borrow Pits prior to approval for use by				
	the Engineer performing the following tests:				
	(i) Atterbergs Limits				
	(ii) Sieve Analysis				
	(iii) Natural Moisture Content				
	(iv) Hydrometer Analysis for fine materials				
	(v) Compaction [standard proctor] (MDD and OMC)				
	(vi) Un-drained Shear Strength test at MDD (vii)				
	Permeability test at MDD				
	(viji) Direct Shear test at MDD (ix) CBR (x)				
	Plastic and Liquid Limit				
	(f) Provision for testing of concrete works before				
	during and after construction in accordance with the				
	specification (i)				
	Comprehensive Strength tests				
	Temporary Works				-
1.5.12	Establishment, maintenance and removal of site sign-				
_	boards to the Engineer's satisfaction, spec	Nr	5.00		-
1.5.13	Dewatering of sites and work areas	sum	1.00		-
1.5.14	Control and diversion of water from site and work				
	areas to ensure the works are completed as		4.00		
	specified. Rate to include removal of all temporary	sum	1.00		-
	facilities after construction				
1.5.15	Restoration of borrow sites, access ways and all				
	sites and work areas to original site in compliance	sum	1.00		-
	with Social Requirements and Environmental				
1.5.16	Construction and maintenance of access roads to	km	20.00		
	borrow sites and all sites and work areas	NIII	20.00		-
Total carrie	ed to summary page				-
1.6	METHOD RELATED CHARGES				
1.6.1	Allow for contractor's mobilisation and demobilisation	sum	1.00		-
1.6.2	Provisonal sum for Client's administration and	month	24.00	8,500,000	204.000.000
	supervision expenses			2,200,000	
1.6.3	Production of As-built drawings as specified (4 sets)	L.sum	1.00		-
1.6.4	Allow for site handover	P.sum	1.00	21,000,000	21,000,000
1.6.5	Allow for Technical Commissioning	P.sum	1.00	30,000,000	30,000,000
1.6.6	Provisional sum for post construction and defects	Month	6.00	8 500 000	51 000 000
	liability period	wonth	0.00	0,000,000	51,000,000

1.6.7 Contractor's handling charge on all provenional sums under 1.6.2, 1.6.8, 1.6.8, 1.6.6 above. % 10.00 7000 CVUSIONAL SUMS		• • • • • • • • • • • • •	I	r		1
Instruction Instruction 1.7. IPCOVISIONAL SUMS 1.7. IPCOVISIONAL SUMS 1.7.1 IPCOVISIONAL SUMS 1.7.2 Allow for clocotenhical investigations to be carried out during construction to confirm design parameters and soil propresties for the Head work. P.sum 1.00 100.000,000 1.7.2 Allow for topographical surveys to be carried out during construction period P.sum 1.00 70.000,000 1.7.3 Allow for hands-on training of Employer's technical staff during the construction period P.sum 1.00 15,000,000 1.7.4 Contractor's handling charges on all provisional sums under 1.71, 1.7.2 & 1.7.3 above % 185,000,000 1.8.1 Professional Services HR 200.00 1 1.8.1 Professional Services HR 200.00 1 1.8.11 Technican Engineer or gologist - Principal or Consultant HR 200.00 1 1.8.12 Versits and conce of conduct for employees and workers, Develop and operationalize a strict recruitment plan and code of conduct for employees and workers, Develop and operationalize a strict recruitment plan and code of conduct for employees and workers, Develop and inplement a vegatation cover and drainage management plan for esplore and sufficience on a strice service workers, and general public about service erains and degradation, and services or vehicles yeeds, Provide tast masks for all workers and venera vegations cover and is ther	1.6.7	Contractor's handling charge on all provisional sums	%	10.00		-
Total carried to summary page 1.7 1.7 PROVISIONAL SUMS 1.7.1 Allow for Geotechnical investigations to be carried out during construction to confirm design parameters P.sum 1.00 100,000,000 1.7.2 RAUWS for Incographical surveys to be carried out during construction period staff during the construction during of the period staff during the construction during the		under 1.6.2, 1.6.4, 1.6.5& 1.6.6 above.	70	10.00		
17.7.1 PROVISIONAL SUMS 1.7.1 Allow for decelenhical investigations to be carried out during construction to confirm design parameters and soil properties for the Head work P.sum 1.00 100,000,000 1.7.2 Allow for topographical surveys to be carried out during construction period P.sum 1.00 70,000,000 1.7.3 Allow for hands-on training of Employer's technical staff during the construction period P.sum 1.00 15,000,000 1.7.4 Contractor's handling charges on all provisional sums under 1.7.1, 11, 7.2 & 1.7.3 above P.sum 1.00 15,000,000 1.8.1 Professional Services HR 200,000 - 1.8.1 Professional Services HR 200,00 - 1.8.11 Technician Engineer HR 200,00 - 1.8.13 Visits to the site HR 200,00 - 1.9 Environmental and Social Mitigation Activities HR 240,00 - 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 exclamation on all and sensitization plan for exclamation on all and sensitization plan for exclamation on silencers / sound attenuation canopias and code of silencers / sound attenuation cano	Total carrie	ed to summary page				
1.7.1 Allow for Geotechnical investigations to be carried out during construction to confirm design parameters and soil properties for the Head work P.sum 1.00 100,000,000 1.7.2 Allow for forgersphical surveys to be carried out during construction period P.sum 1.00 70,000,000 1.7.3 Allow for hands-on training of Employer's technical staff during the construction period P.sum 1.00 15,000,000 1.7.4 Contractor's handling charges on all provisional sums under 17,1,1.7.2 & J.2 above % 185,000,000 1.8 GROUND INVESTIGATIONS Image: Contractor in an operational is a struct recruitment plan is and operational is a struct recruitment plan and ocde of conduct for employees and workers: Develop a consultant is struct recruitment plan and ocde of conduct for employees and workers: Develop a condem distribution on a monthly basis. sum 1.9.1 Develop and operationalize a struct recruitment plan for employees, workers and general public about HIV/AIDS calcer prevention. child abuse and genderal-based violence including the use of IEC enderal workers. sum 1.9.3 Develop and degradation. sum sum 1.9.4 Installation of silencers/s ound attenuation complete receiver and distruction and maintenance of noise measuming equipiment to measure the level of noise a struct recruitmen	1.7	PROVISIONAL SUMS				
out during construction to confirm design parameters and soil properties for the Head work. P.sum 1.00 100,000,000 1.7.2 Allow for topographical surveys to be carried out durining construction staff during the construction period P.sum 1.00 70,000,000 1.7.3 Allow for hands-on training of Employer's technical staff during the construction period P.sum 1.00 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 % 185,000,000 15,000,000 1.8.1 Professional Services H 200,00 - 1.8.1 Fortessional Services HR 200,00 - 1.8.1 Fortessional Services HR 200,00 - 1.8.1 Technician Engineer HR 200,00 - 1.8.13 Visits to the site HR 240,00 - 1.8.14 Develop and operationalize a strict recruitment plan and code of conduct for employees and workers; Develop a condumunication and sensitization plan for employees, workers and general public about sum 1.9.1 Develop and and landfill will take place to prevent soil erosion and degradation. sum	1.7.1	Allow for Geotechnical investigations to be carried				
and soil properties for the Head work Intervention Intervention 1.7.2 Allow for topographical surveys to be carried out during construction P.sum 1.00 70,000,000 1.7.3 Allow for tands-on training of Employer's technical staff during the construction period P.sum 1.00 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 % 185,000,000 15,000,000 1.8.1 Professional Services HR 200.00 - 1.8.1 Professional Services HR 240.00 - 1.8.11 Technican Engineer HR 240.00 - 1.8.12 Engineer or geologist - Principal or Consultant HR 240.00 - 1.8.13 Visits to the site HR 240.00 - 1.9 Environmental and Social Mitigation Activities Intervention and code of conduct for employees and workers; Develop and operationalize a strict recruitment plan and code of conduct of employees and workers; Develop and implement a vegatalon core and drainage management plain for all sites where excavation and landfill will take place to prevent soil erosion and degradation. sum 1.9.4 Installation of silencers's sound attenuation canopies for equipment that emit excessive noise. Installation and maintenace of noise measuring equipment to measure the level of noise. Instreal excessive noise. Installation of silencers's round s		out during construction to confirm design parameters	P.sum	1.00	100.000.000	100.000.000
1.7.2 Allow for topographical surveys to be carried out during construction P.sum 1.00 70,000,000 1.7.3 Allow for hands-on training of Employer's technical staff during the construction period P.sum 1.00 15,000,000 1.7.4 Allow for handling charges on all provisional sum during the construction period % 185,000,000 15,000,000 1.7.4 Contractors handling charges on all provisional sum during the construction period % 185,000,000 - 1.8.1 Contractors handling charges on all provisional sum during the construction period % 185,000,000 - 1.8.1 Professional Services H 200,00 - 1.8.1 Technician Engineer 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 - 1.8.15 Develop and operationalize a strict recruitment plan and code of conduct for employees and workers; Develop a communication and sensitization plan for employees, workers and general public about H//MDS, accident prevention, child abuse and gender-based violence including the use of IEC sum 1.9.3 Develop and anal andfill with take place to preven strict for equipment that emit excessive noise. Installation and maintenance of noise measuring equipment to measure the level ol noise at specific stricts, coll ec		and soil properties for the Head work			,,	,,
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1.7.3 Allow for hands-on training of Employer's technical staff during the construction period P.sum 1.00 15.000.000 1.7.4 Contractors handing-charges on all provisional sums under 1.7.1, 1.7.2 & 1.7.3 above % 185,000.000 Total carried to summary page % 185,000.000 - 1.8.1 Professional Services H 200.00 - 1.8.11 Technician Engineer HR 200.00 - 1.8.12 Engineer or geologist - Principal or Consultant HR 240.00 - 1.8.13 Visits to the site HR 240.00 - 1.8.14 Dewelop and operationalize a strict recruitment plan and code of conduct for employees and workers; Develop a communication and sensitization plan for employees, workers and general public about HIV/AIDS, accident prevention, child abuse and general-based violence including the use of IEC sum sum 1.9.2 Provide free HIV/AIDS testing, counselling and conder distribution on a monthly basis. sum sum 1.9.3 Develop and implement a vegetation cover and drainage manept on for all sites where excavation and landifil will take place to prevent soil erroism and degradation. sum sum 1.9.4 Installation of silencers / sound attenuation canopies for englipment to measuring equipment	1.7.2	durning construction	P.sum	1.00	70,000,000	70,000,000
1.7.3 Pound of the added spectral provide is clusticated P.sum 1.00 15,000,000 1.7.4 Contractor's handling charges on all provisional sums under 1.7.1,1.7.2 At .7.3 above % 185,000,000 1.8 GROUND INVESTIGATIONS	173	Allow for hands-on training of Employer's technical				
1.7.4 Image: Solution of the Contractor's handling charges on all provisional sums under 1.7.1, 1.7.2 & 1.7.3 above % 185,000,000 1.8.1 Contractor's handling charges on all provisional sums under 1.7.1, 1.7.2 & 1.7.3 above % 185,000,000 1.8.1 Frofessional Services H 200.00 - 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 Develop and operationalize a strict recruitment plan and code of conduct for employees and workers; Develop a communication and sensitization plan for employees, workers and general public about HIV/AIDS, acotient prevention, child abuse and gender-based violence including the use of IEC sum 1.9.2 Provide free HIV/AIDS testing, counseiling and conder distribution on a monthly basis. sum 1.9.3 Develop and implement a vegetation cover and drainage management plan for all sites where excavation and landifil will take place to prevent soil orresion and degradation. sum 1.9.4 Installation of silences . Insura valiallation and maintenance of noise measuring equipment to measure the level of noise at specific sites during understand services and visitors. sum 1.9.5 Sprinkle water on all lanxcavated sites and dusty vehicle pathways and limit vehicle speeds. Provide tarpaulin covers for vehicles while hauling dust	1.7.5	staff during the construction period	P.sum	1.00	15,000,000	15,000,000
1.7.4 Contractor is amplicating triangles of an provisional % 185,000,000 Total carried to summary page 1.8 GROUND INVESTIGATIONS	174	Contractor's headling sharges on all provisional				
Total carried to summary page	1.7.4		%		185,000,000	-
10.1 1.8 GROUND INVESTIGATIONS	Total corrie					
1.8.1 Professional Services HR 200.00 - 1.8.11 Technician 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 - 1.8.14 Develop and operationalize a strict recruitment plan and code of conduct for employees and workers: Develop a communication and sensitization plan for employees, workers and general public about HIV/AIDS, accident prevention, child abuse and gender-based violence including the use of IEC sum - 1.9.2 Provide free HIV/AIDS testing, counselling and condom distribution on an monthly basis. sum sum 1.9.3 Develop and implement a vegetation cover and drainage management plan for excavation and landfill will take place to prevent soil erosion and degradation. sum sum 1.9.4 Installation and landfill will take place to prevent soil erosion and degradation. sum sum 1.9.4 Installation of silencers / sound attenuation canopies for equipment to measure the level of noise at specific sites during noise generating activities. Ensure availability of earmuffs at the site for worker and visitors, as required during the project sum 1.9.5 Sprinkle water on all excavated sites and dusty vehicle pathways and limit veh	Total carrie	ed to summary page	1	1		
1.8.1 Protessional Services HR 200.00 - 1.8.11 Technician Engineer HR 200.00 - 1.8.12 Engineer or geologist - Principal or Consultant HR 240.00 - 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 - 1.9 Environmental and Social Mitigation Activities	1.8	GROUND INVESTIGATIONS				
1.8.11 Technician 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 - 1.8.14 Overnight stays in connection to visits to the site HR 240.00 - 1.8.14 Overnight stays in connection to visits to the site HR 240.00 - 1.8.14 Develop and operationalize a strict recruitment plan and code of conduct for employees and workers; Develop a communication and sensitization plan for employees, workers and general public about HIV/AIDS, accident prevention, child abuse and gender-based violence including the use of IEC sum 1.9.2 Provide free HIV/AIDS testing, counselling and condom distribution on a monthly basis. sum sum 1.9.3 Develop and implement avegetation cover and drainage management plan for exavated sites. Installation and maintenance of noise maspecific sites during noise generating activities. Ensure availability of earnuffs at the site for worker and visitors. sum 1.9.4 Installation of silencers / sound attenuation canopies for equipment that emit excessive noise. Installation and maintenance of noise at specific sites during noise generating activities. Ensure availability of earnuffs at the site for worker and visitors. sum 1.9.5 <	1.8.1	Professional Services				
1.8.12 Engineer or geologist - Principal or Consultant HR 200.00 - 1.8.14 Overnight stays in connection to visits to the site HR 240.00 - Total carried to summary page - - - - 1.9 Environmental and Social Mitigation Activities - - - 1.9 Environmental and Social Mitigation Activities - - - 1.9 Environmental and Social Mitigation Activities - - - 1.9 Environmental and Social Mitigation Activities - - - 1.9 Environmental context and sensitization plan for all stee of locaduct for employees, workers and general public about - - - 1.9.2 Provide free HIV/ADS, accident prevention, child abuse and gender-based violence including the use of IEC sum - - 1.9.3 Develop and implement a vegetation cover and drainage management plan for all sites where excavation and landfill will take place to prevent soil erosion and degradation. sum - - 1.9.4 Installation of silencers / sound attenuation canopies for equipment thatemit excessive noise. Installation and maintenance of noise measuring equipment to measure the level of noise at specific sites during noise gen	1.8.11	Technician Engineer	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 - 1.9 Environmental and Social Mitigation Activities - - - 1.9 Develop and operationalize a strict recruitment plan and code of conduct for employees and workers; Develop a communication and sensitization plan for employees, workers and general public about HIV/AIDS, accident prevention, child abuse and gender-based violence including the use of IEC sum - 1.9.2 Provide free HIV/AIDS testing, counselling and condom distribution on a monthly basis. sum - 1.9.3 Develop and implement a vegetation cover and drainage management plan for all sites where excavation and landfill will take place to prevent soil erosion and degradation. sum - 1.9.4 Installation of silencers / sound attenuation canopies for equipment tha texas ven osie. Installation and maintenance of noise measuring equipment to measure the level of noise at specific sites during noise generating activities. Ensure availability of earmuffs at the site for worker and visitors. sum 1.9.5 Sprinkle water on all excavated sites and dusty vehicle pathways and limit vehicle speeds. Provide targuin covers for vehicles while hauling dust generating materials. Provide dust masks for all workers and visitors, as required during the project - 1.10.1 Store and dispose off hazardosus	1.8.12	Engineer or geologist - Principal or Consultant	HR	200.00		-
1.8.14 Overnight stays in connection to visits to the site HR 240.00 - Total carried 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 employees, workers and general public about sum - 1.9.2 Provide free HIV/AIDS testing, counselling and condom distribution on a monthly basis. sum sum 1.9.3 Develop and implement a vegletation cover and drainage management plan for all sites where excavation and lendfill will take place to prevent soil erosion and degradation. sum sum 1.9.4 Installation of silencers / sound attenuation canopies for equipment that emit excessive noise, installation and maintenance of noise masuring equipment to measure the level of noise at specific sites during noise generating activities. Ensure availability of earmuffs at the site for worker and visitors. sum 1.9.5 Sprinkle water on all excavated sites and dusty whick pathways and limit whick speeds. Provide tarpaulin covers for vehicles while hauling dust generating materials. Provide dust masks for all workers and visitors, as required during the project - Total carried to summary page - - 1.10.1 Store and dispose of fhazardosu wastes and raw material (e.g.f	1.8.13	Visits to the site	HR	240.00		-
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1.10.5 Installation of a fully equiped first aid room sum		Management Plan	sum			
	1.10.5	Installation of a fully equiped first aid room	sum			

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

BILL NO. 2	HEAD WORKS	BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
2.1					
2.1	Earth work				
2.1.1.1	Excavation for foundation in all sorts of soil including desposal of excavated material to an approved site	m ³	11,690.02		-
2.1.1.2	Compacted backfilling the foundations and back of walls with selected material complying with standard specifications.	m³	4,665.62		-
2.1.1.3	Extra over all excavation and earthworks for breaking up rock at any point (0-3m depth)	m ³	560.00		-
2.1.1.4	Free draining gravelly backfill materals at the back of walls	m³	1,745.07		-
2.1.1.5	Allow for diversion of the river to ensure the wier site is free of water during construction	L.Sum	1.00		-
2.1.2	Concrete work				
2.1.2.1	Concrete C-20 including for foundations	m ³	348.17		-
2.1.2.2	Concrete C-25 for spill weir body.	m ³	619.46		-
2.1.2.3	Reinforced Concrete : RC-35 for wing walls,floor slab, Bridge slab etc.	m³	4,091.94		-
2.1.2.4	Steel Formwork for concrete	m ²			-
2.1.2.5	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 for	Kg	144,108.42		-
2.1.2.6	Providing and fixing in position PVC heavy duty water stop in barrels, troughs and wing walls having 225 mm width of expansion joint as shown in drawing etc as directed.	m	250.00		-
2.1.3	Protection works				
	Earth work				
2.1.2.7	Excavation for foundation in all sorts of soil including desposal of excavated material to an approved site	m³	4,991.88		-
2.1.2.8	Compacted backfilling the foundations and back of walls with selected material complying with standard specifications.	m³	736.09		-
2.1.2.9	Provide and place gabion boxes using PVC coated galvanised wire 1.0x1.0x2.0m of 50mmx1.5mm diameter mesh size including packing of stones of not more than 300mm and not less than 80mm sizes as per drawing.	m ³	895.00		-
	Concrete work				
2.1.2.10	Concrete C-20	m ³	111.45		-
2.1.2.11	Concrete 25	m ³	544.58		-
0.1.0.1-	Steel Works		40.00		
2.1.2.15	Hand rall for oprating platform and upstream wing	m	40.00		-
2.1.2.16	the drawing for detail)consists the following parts 8mm thickness sheet metal, 1.25mX1.75m 50X50X10mm angle iron, 3.2 m length 12mm bar for anchorage, spindel.stiffening angel iron	Nr	4.00		-
	FENCING				
2.1.2.17	Concrete post and wire fence including chainlink, mesh, intermediate, corner and bracing posts in	m	200.00		-
Tetel	accordance with the drawings.				
					-
۷.۷	INTARE STRUCTURE				l

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
2.2.1	Earth work				
2.2.1.1	Excavation for foundation in all sorts of soil including desposal of excavated material to an approved site	m³	168.75		-
2.2.1.2	Compacted backfilling the foundations and back of walls with selected material complying with standard specifications.	m³	20.25		-
2.2.1.3	Free draining gravelly backfill materals at the back of walls	m³	30.38		-
	Concrete work				
2.2.1.4	Concrete C-20 for foundations.	m ³	5.63		-
2.2.1.5	Reinforced Concrete : RC-35 for wing walls,floor slab, Bridge slab etc.	m ³	89.13		-
2.2.1.6	Steel Formwork for concrete	m²	165.10		-
2.2.1.7	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 for	Kg	8,852.98		-
	Steel Works				
2.2.1.8	Hand rail for oprating platform	m	22.00		-
2.2.1.9	Off take canal gate consists Installation, the gate consists the following parts 6mm thickness sheet metal,1.5m X 1m 40X40X10mm angle iron, 2 m length 12mm bar for Spindle,L=1.9.0m, with handle anchorage, spindel,stiffening angel iron	Nr	4.00		-
2.2.1.10	Trashi racks, 1.5*1.7	Nr	4.00		-
Total carrie	ed to summary page				-

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
2.3	SETTLING BASIN				
2.3.1	Earth work				
2.3.1.1	Excavation for foundation in all sorts of soil including desposal of excavated material to an approved site	m³	2,720.00		-
2.3.1.2	Compacted backfilling the foundations and back of walls with selected material complying with standard specifications.	m³	782.43		-
2.3.1.3	Free draining gravelly backfill materals at the back of walls	m ³	465.76		-
	Concrete work				
2.3.1.4	Concrete C-20 for foundations.	m ³	43.63		-
2.3.1.5	Reinforced Concrete : RC-35 for wing walls,floor slab, Bridge slab etc.	m³	593.00		-
2.3.1.6	Steel Formwork for concrete	m²	1,056.27		-
2.3.1.7	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 for	Kg	35,947.02		-
	Steel Works				
2.3.1.9	Hand rail for oprating platform	m	27.00		-
2.3.1.10	GATES (Supply and installation as per the drawing for detail) the gate consists the following parts 6mm thickness sheet metal,1.25m X 1m 40X40X10mm angle iron, 2 m length 12mm bar for anchorage, spindel,stiffening angel iron Spindle,L=1.8m, with handle	Nr	4.00		-
	Sediment flushing Works				
2.3.1.11	Trench excavation in normal materials for DN 500mm PE corrugated pipe	m ³	260.80		-
2.3.1.12	Compacted selected material filling around the flushing pipe	m ³	52.00		-
2.3.1.13	Compacted backfilling the pipe trench and back of walls with selected material complying with standard specifications.	m ³	235.40		-
2.3.1.14	Reinforced Concrete : RC-35 for wing walls,floor slab, etc.	m	8.71		-
2.3.1.15	supply and fix 500 dia PE pipe	m	75.00		-

BILL NO. 3 MAIN CANAL		BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
3.1	LINED MAIN CANAL about 1.04 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	m²	10,242.33		-
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	8,783.03		-
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	957.65		-
	Breaking rock				-
3.1.4	Extra over all excavation and earthworks for breaking up rock at any point (0-2m depth)	m ³	850.00		-
	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	511.83		-
3.1.6	5mm thick 1:3 cement sand plaster to excavated canal surfaces	m²	6,824.35		-
3.1.7	Provide vertical & horizontal joints in floor slab with waterstop, joint filler, sealing strip etc complete, as directed by the Engineer	m²	13.66		-
	FENCING				-
3.1.18	Concrete post and wire fence including chainlink, mesh, intermediate, corner and bracing posts in accordance with the drawings.	m	2,080.00		-
Total carrie	ed to summary page				-

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	m²	333.52		-
	surplus in spoil tips including placing up to 300m				
3.2.1.2	Excavate of ordinary soil to formation level on				
	completion and disposal of surplus in spoil as	m³	1,012.46		-
	directed by Engineer				
3.2.1.3	Fill with Selected material obtained from excavated	-			
	borrow pits and transported to working space	m ³	431.67		-
	compacted to satisfaction of the Engineer				
3.2.1.4	Provide and fill hard core base 300mm as directed		107 92		-
	by the Engineer		101.02		
3.2.1.5	Provide and fill well compacted and blinded with	2			
	mixed sand and gravel under masonry floor to	m°	26.42		-
	approach channel side and floor and structure floor				
	Structural work				
3.2.1.6	Provide and fill with hard basaltic or equivalent	m ³	225.25		-
0.0.4.7	stone, in sand mortar 1:3				
3.2.1.7	20mm thick 1:3 cement sand plaster to stone	m²	140.71		-
0.04.0	masonary drop structure				
3.2.1.8	Mass concrete class C-25 to	3	4.45		
3.2.1.9		m	1.15		-
3.2.1.10	Floor cover	m	4.34		-
Total carrie	ed to summary page		1		-
3.2.2	Main Canal Crossing Structures (2 NO.)				
	Earth work				
3.2.2.1	Clearing and stripping of the structures area to	2			
	formation level on completion and disposal of	m²	44.00		-
	surplus in spoil tips including placing up to 300m				
3.2.2.2	Excavate of ordinary soil to formation level on	3			
	completion and disposal of surplus in spoil as	m	28.80		-
	directed by Engineer				
3.2.2.3	Fill with Selected material obtained from excavated	3	47.00		
	porrow pils and transported to working space	m	17.20		-
2224	Drovide and fill bard care base 150 mm as directed				
5.2.2.4	by the Engineer	m ³	2.88		-
	Structural works				
2225	To provide out and fix in position emooth finish form				
3.2.2.3	To provide cut and fix in position smooth finish form	m²	114.87		-
3226	Lean concrete class C-15, 50mm thick blinding	m ³	19.20		
3227	Brovide reinforced concrete class C25	3	19.20		-
3.2.2.7	Provide reinforced concrete class 025	m	35.50		
3.2.2.8	ribbed reinforcement bars including outting				
	house removement bars including cultury,	Kg	2,674.22		-
	necessary booking ato, complete as per drawing				
Total carrie	ad to summary page		I		
Total Carrie	sa to summary page				

BILL NO. 4 STORAGE TANK		BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
4.1	STORAGE TANK (500mx130mx4.3m)				
4.1.1	Clearing and stripping to formation level on completion and disposal of surplus in spoil as	m²	94,083		-
4.1.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m³	167,090		-
4.1.3	Provide, place and compact clay core from borrow pits or another source not more than 15km from site to 95% ASSHTO T99 density of the clay core in layers not exceeding 150mm.	m ³	19,600		-
4.1.4	Embankment fill with selected material obtained from excavated borrow pits and transported soil(50%) plus (50%) gravel materials after blending to form earth bund compacted to satisfaction of the Engineer	m ³	71,680		-
4.1.5	100-150mm graded filter material at the Heel of the Embankment as directed by the Engineer	m³	225		-
4.1.6	Provide and haul gravel material/murram spread, shape, watering and compact in layers one not exceeding 150mm thickness at least 95% MoD AASHTO on the top	m ³	1,033		-
4.1.7	100-150 mm size Hard core riprap on the inner side slope of the Embankment with cover thickness of 200 mm as specified in the drawing to the satisfaction of the the Engineer	m²	13,675		-
	FENCING				-
4.1.8	Concrete post and wire fence including chainlink, mesh, intermediate, corner and bracing posts in accordance with the drawings.	m	1,340		-
4.1.9	MS Gate - Access to Night storages	No.	1		-
Total carrie	ed to summary page				-

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
4.2	INLET AND CROSSING STRUCTURES				
	Earth work				
4.2.1	Excavate of ordinary soil to formation level on	3	EE CA		
	directed by Engineer	m	55.04		-
4.2.2	Fill with Selected material obtained from excavated				
	borrow pits and transported toworking space	m ³	24.62		-
	compacted to satisfaction of the Engineer				
	Structural work				
4.2.3	Provide and fill with Cyclopean concrete with Cement	m ³	30 / 8		_
	to hardcore ratio of 40:60%	111	00.40		
4.2.4	Provide and fill with hard basaltic or equivalent stone,	m ³	21.44		-
105	in sand mortar 1:3				
4.2.5	To provide cut and fix in position smooth finish form work	m ²	168.00		-
	Concrete work				
4.2.6	Lean concrete class C-15	m ³	4.20		-
4.2.7	Murrum mixed with 5% cement	m ³	12.60		-
4.2.8	Reinforced concrete class C-25	m ³	39.47		-
4.2.9	Provide all materials and construct canal base and				
	side walls in concrete C25 75mm thick as per the	m ³	10.05		
	drawings, including A142 BRC, blinding and steel	m	10.95		-
	formwork for reuse as required.				
	Reinforcement bars				
	Providing and Placing in position High Yield Strength				
4 2 10	ribbed reinforcement bars including cutting,	ka	623 24		_
1.2.10	bending, binding and welding joints where necessary,		020.24		
	hooking etc. complete as per drawing for all leads				
Total carrie	ed to summary page				-

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
4.3	OUT LET STRUCTURE				
	Earth work				
4.3.1	Excavate of ordinary soil to formation level on				
	completion and disposal of surplus in spoil as	m³	128.66		-
	directed by Engineer				
4.3.2	Fill with Selected material obtained from excavated				
	borrow pits and transported toworking space	m³	98.97		-
	compacted to satisfaction of the Engineer				
	Structural work				-
4.3.3	Provide and fill with hard basaltic or equivalent stone,	m ³	67 42		
	in sand mortar 1:3		07.42		
4.3.4	To provide cut and fix in position smooth finish form	m ²	278 40		
	work	111	270.40		_
4.3.5	Lean concrete class C-15	m³	22.72		-
4.3.6	Murrum mixed with 5% cement	m ³	8.40		-
4.3.7	Reinforced concrete class C-25		50.74		-
4.3.8	Supply and fix 1000 mm dia Double wall PE culvert		25.00		
	pipe to the satisfaction of the Engineer	m	35.00		-
4.3.9	Provide and place fine sand material as bedding to	3	E4 60		
	satisfaction of the Engineer	m	54.60		-
4.3.10	Providing and Placing in position High Yield Strength				
	ribbed reinforcement bars including cutting,	kg	E 965 02		
	bending, binding and welding joints where necessary,		Kg 5,865.92		-
	hooking etc. complete as per drawing				
Total carrie	ed to summary page				-

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
4.4	SPILLWAY STRUCTURES				
	Earth work				
4.4.1	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m³	159.05		-
4.4.2	Compacted fill with selected material obtained from excavated borrow pits and transported soil to cutoff wall of spillway working space	m³	102.62		-
	Structural work				
4.4.3	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m³	116.03		-
4.4.4	Apply three coats of plastering to stone masonry walls sides and floors	m²	256.35		-
4.4.5	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	14.85		-
4.4.6	Lean concrete class C-15, 150mm thick blinding under the spillway floor	m ³	7.43		-
4.4.8	Reinforced concrete class C-25 to horizontal and drop floor on spillway		27.00		-
4.4.9	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	1,112.92		-
Total carrie	ed to summary page				-

BILL NO. 5 SECONDARY CANALS		BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
5.1	LINED SECONDARY CANALS (7.49 km)				
	Earth Work				
5.1.1	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m²	58,068.16		
5.1.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	3,667.11		-
5.1.3	Provide and transport, spread, shape, water and compact selected material in layers not exceeding 200mm thickness to atleast 98% MOD AASHTO for the canal earth bunds to achieve design/formation levels	m³	28,175.84		-
5.1.4	Provide and fill hard core base 300mm as directed by the Engineer	m ³	475.00		-
	Canal Lining				
5.1.5	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.	m³	2,784.05		
5.1.6	5mm thick 1:3 cement sand plaster to excavated canal surfaces	m²	37,120.70		-
5.1.7	Provide vertical & horizontal joints in floor slab with waterstop, joint filler, sealing strip etc complete, as directed by the Engineer	m²	73.26		
Total carrie	ed to summary page				-

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
5.2	STRUCTURES AND ASSOCIATED WORKS				
5.2.1	Drop structures				
	Earth work				
5.2.1.1	Clearing and stripping to formation level on completion and disposal of surplus in spoil as	m²	355.30		-
5.2.1.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m³	1,004.85		-
5.2.1.3	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	m³	405.65		-
5.2.1.4	Provide and fill hard core base 300mm as directed by the Engineer	m ³	243.39		-
5.2.1.5	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	27.03		-
	Structural work				
5.2.1.6	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m ³	235.66		-
5.2.1.7	20mm thick 1:3 cement sand plaster to stone masonary drop structure	m²	147.55		-
	Mass concrete class C-25 to				-
5.2.1.8	Masonry coping	m ³	1.03		-
5.2.1.9	Floor cover	m ³	3.76		-
Total carrie	ed to summary page				-

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
5.2.2	Cross Regulator and Head Regulator Structures				
	Earth work				
5.2.2.1	Clearing and stripping of the structures area to formation level on completion and disposal of surplus in spoil tips including placing up to 300m	m²	978.07		-
5.2.2.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m³	667.97		-
5.2.2.3	Fill with Selected material obtained from excavated borrow pits and transported to working space compacted to satisfaction of the Engineer	m ³	124.13		-
5.2.2.4	Provide and fill hard core base 300mm as directed by the Engineer	m ³	86.00		-
	Structural works				-
5.2.2.5	Provide and fill with hard basaltic or equivalent	m ³	466.40		-
5.2.2.6	Providing and Placing in position High Yield Strength ribbed reinforcement bars including cutting, bending, binding and welding joints where necessary, hooking etc. complete as per drawing	Kg	2,570.85		-
5.2.2.7	20mm thick 1:3 cement sand plaster to stone	m ²	478.43		-
5.2.2.8	To provide cut and fix in position smooth finish form work	m ²	286.00		-
5.2.2.9	Lean concrete class C-15, 75mm thick blinding as specified in the Drawing	m³	37.05		-
5.2.2.10	Concrete class C-25 to gate top slab and post	m³	73.85		-
5.2.2.11	Precast concrete pipe diameter 450 mm and thickness as mentioned in the drawing	m	60.00		-
Total carrie	ed to summary page		2		-
5.2.3	Secondary Canal Crossing Structures				
	Farth work				
5.2.3.1	Clearing and stripping of the structures area to formation level on completion and disposal of surplus in spoil tips including placing up to 300m	m²	418.00		-
5.2.3.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m³	273.60		-
5.2.3.3	Fill with Selected material obtained from excavated borrow pits and transported to working space compacted to satisfaction of the Engineer	m ³	121.75		-
5.2.3.4	Provide and fill hard core base 150 mm as directed by the Engineer	m ³	27.36		-
	Structural works				
5.2.3.5	To provide cut and fix in position smooth finish form work	m³	1,091.24		-
5.2.3.6	Lean concrete class C-15, 50mm thick blinding	m ³	182.40		-
5.2.3.7	Provide reinforced concrete class C25	m ³	337.85		-
5.2.3.8	Providing and Placing in position High Yield Strength ribbed reinforcement bars including cutting, bending, binding and welding joints where necessary, hooking etc. complete as per drawing	m²	25,405.05		-
Total carrie	ed to summary page				-

BILL NO. 6	TERTIARY CANALS	BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
6.1	FARM CLEARANCE AND LEVELLING				
6.1.1	Clear the area of the command area from bush, trees, anthills and shrubs average depth 150mm	Ha	500		
6.1.2	Excavations for cut of raised grounds depth not exceeding 1.5m, fill of depressions and farmland levelling to achieve design /formation farmland levels as per the Engineers direction	На	500		
6.2	UNLINED TERTIARY CANALS				
	Earth Works				
6.2.1	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m²	38,001.40		-
6.2.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	758.04		-
6.2.3	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	m³	11,597.21		-
Total carrie	ed to summary page				-
6.3	STRUCTURES AND ASSOCIATED WORKS				
6.3.1	Turnout Structures				
	Earth work				
6.3.1.1	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m²	2,767.68		-
6.3.1.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	742.24		-
6.3.1.3	Back Fill with excavate material to working space compacted to satisfaction of the Engineer	m ³	311.74		-
	Structural work				-
6.3.1.4	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m ³	571.11		-
6.3.1.5	Concrete class C-25 to gate post and columns	m ³	10.43		-
6.3.1.6	Provide and fill Cyclopean concrete with Cement to Hard core ratio of (40:60)% using concrete class of C-20	m ³	96.39		-
6.3.1.7	To provide cut and fix in position smooth finish form work to masonry coping	m²	1,103.24		-
6.3.1.8	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	1,845.87		-
Total carrie	eu to summary page				-

BILL NO. 6	TERTIARY CANALS	BOQ			
6.3.2	Drop Structures				
	Earth work				
6.3.2.1	Clearing and stripping of the structures area to formation level on completion and disposal of surplus in spoil tips including placing up to 300m	m²	185.54		-
6.3.2.2	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	332.88		-
6.3.2.3	Earth fill with selected material obtained from excavated borrow pits and transported soil to masonry wall and floor foundation working space compacted to satisfaction of the Engineer	m ³	250.00		-
6.3.2.4	Provide and fill well compacted and blinded with mixed sand and gravel under masonry floor to approach channel side and floor and structure floor	m³	29.81		-
	Structural work		0.00		-
6.3.2.5	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m ³	14.94		-
6.3.2.6	Mass concrete class C-25 to		0.00		-
6.3.2.7	Masonry coping	m ³	1.12		-
6.3.2.8	Floor cover	m3	1.28		-
Total carrie	ed to summary page				0

BILL NO. 7	SECONDARY DRAIN	BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
7.1	UNLINED SECONDARY 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	71,339.50		-
7.1.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m³	75,978.53		-
Total carrie	d to summary page				-
7.2	STRUCTRES AND ASSOCIATED WORKS				
7.2.1	Drop Structures				
	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	939.98		-
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	680.17		-
	Structural work				-
7.2.1.3	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m ³	286.15		-
7.2.1.5	Provide and pointing with cement mortar to the stone masonry sides and floor	m²	558.94		-
7.2.1.6	Masonry coping with C25	m³	10.03		-
Total carrie	d to summary page				-
7.2.2	Outfall Structures to Secondary Drain				
	Earth work				
7.2.2.1	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m²	1,722.55		-
7.2.2.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	1,147.01		-
7.2.2.3	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	149.33		-
7.2.2.4	Provide and fill well compacted and blinded with mixed sand and gravel under stone masonry floor to drain side and floor	m ³	73.86		-
	Structural work				-
7.2.2.5	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m ³	500.76		-
7.2.2.6	To provide cut and fix in position smooth finish form work to masonry coping	m²	7.89		-
7.2.2.7	Mass concrete class C-25 to masonry coping	m ³	10.92		
7.2.2.8	Provide and pointing with cement mortar to the stone masonry sides and floor	m²	906.15		-
7.2.2.9	Precast concrete pipe and thickness as mentioned in the drawing				-
7.2.2.10	Diameter 600 mm	m	60.00		-
7.2.2.11	Diameter 1200 mm	m	30.00		-
Total carrie	d to summary page				-

7.2.3	Pipe Culvert Structures			
	Earth work			
7.2.3.1	Clearing and stripping of along the canal to			
	formation level on completion and disposal of	m²	687.50	-
	surplus in spoil as directed by Engineer			
7.2.3.2	Excavate of ordinary soil to formation level on			
	completion and disposal of surplus in spoil as	m³	243.75	-
	directed by Engineer			
7.2.3.3	Earth fill with selected material obtained from			
	excavated borrow pits and transported soil to	m ³	875.00	_
	masonry wing walls floor foundation working space	111	075.00	_
	compacted to satisfaction of the Engineer			
	Structural work			
7.2.3.5	Provide and fill with hard basaltic or equivalent	m ³	313 55	_
	stone, in sand mortar 1:3	111	010.00	
7.2.3.6	Mass concrete class C20	m ³	151.23	-
7.2.3.7	To provide cut and fix in position smooth finish form	m ²	350.00	_
	work to masonry coping		330.00	
7.2.3.8	Lean concrete class C-15, 70mm thick blinding	m ³	375.00	_
	under the pipe floor bedding		575.00	
	20mm thick 1:3 cement sand plaster to stone	m^2	471 60	_
	masonary drop structure	111	47 1.00	
	Precast concrete pipe and thickness as mentioned in			
	the drawing			
7.2.3.11	Diameter 1000 mm	m	80.00	-
7.2.3.12	Diameter 1200 mm	m	80.00	-
Total carrie	d to summary page			-

BILL NO. 8	TERTIARY DRAIN	BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
8.1	UNLINED TERTIARY DRAINS				
	Earth Work				
8.1.1	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m²	15,614.34		-
8.1.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m³	5,109.16		-
Total carrie	ed to summary page				
8.2	STRUCTURES AND ASSOCIATED WORKS				
8.2.1	Outfall Structures to Secondary Drain				
	Earth work				
8.2.1.1	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m²	144.00		-
8.2.1.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m³	180.00		-
8.2.1.3	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	76.00		-
8.2.1.4	Provide and fill well compacted and blinded with mixed sand and gravel under stone masonry floor to drain side and floor	m³	36.00		-
8.2.1.5	Structural work				-
	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m³	156.00		-
8.2.1.6	To provide cut and fix in position smooth finish form work to masonry coping	m²	42.00		-
8.2.1.7	Mass concrete class C-20 to masonry coping	m ³	7.85		-
8.2.1.8	Provide and pointing with cement mortar to the stone masonry sides and floor	m²	124.00		-
8.2.1.9	Precast concrete pipe and thickness as mentioned in the drawing				-
8.2.1.10	Diameter 600 mm	m	40.00		-
Total carrie	ed to summary page				-

BILL NO. 9	FLOOD PROTECTION WORKS	BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
9.1	FLOOD PROTECTION DYKE				
	Earth work				
9.1.1	Clearing and stripping of along the Dyke to formation level on completion and disposal of surplus in spoil as directed by Engineer	m²	68,000.00		-
9.1.2	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	38,250.00		-
Total carrie	d to summary page		•	•	-
9.2	ESCAPE CANAL 1-2				
	Earth work				
9.2.1	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m²	1,465.62		-
9.2.2	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m ³	755.92		-
Total carrie	d to summary page		•		-
9.3	RIVER DREDGING				
	Earth work				
9.3.1	River Dredging, Widening, Shaping and disposal of spoil material as directed by the Engineer	m³	8,564.00		-
Total carrie	ed to summary page				-

Bill no. 10	STEEL WORK/HYDRO MECHANICAL GATES	BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
10.1	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				-
10.1.1	900*1480 (mm)	Nr	2		-
10.1.2	900*1430 (mm)	Nr	2		-
Total carrie	ed to summary page				-
10.2	STORAGE TANK 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				
10.2.1	1420*2100 (mm)	Nr	2		-
Total carried to summary page					

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)	
10.3	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 I ons and a spindle diameter of 50mm as					
1031	900*790(mm)	Nr	1			
10.3.1	900*770(mm)	Nr	1			
10.3.2	900*750(mm)	Nr	1		-	
10.0.0	900*740(mm)	Nr	1			
10.3.4	800*670(mm)	Nr	1			
10.3.5	800*640(mm)	Nr	1			
10.3.0	700*610(mm)	Nr	1			
10.3.7	700*580(mm)	Nr	1			
10.3.0	700 500(mm)	INI Nir	1		-	
10.3.9	700 500(mm)	INI Nir	1		-	
10.3.10	600*440(mm)	INI Nir			-	
10.3.11	600*280(mm)		1		-	
10.3.12	400*200(mm)	Nr Nr	1		-	
10.3.13	400 300(mm)	Nr	1		-	
10.3.14	400*300(mm)	Nr	1		-	
10.3.15	400°300(mm)	Nr	1		-	
	I ertiary Canals withinSC-1					
	Single leaf metal sheet Vertical hand lifted sliding					
	~ 0.45 m x 0.45 m as shown on the drawings and as	Nr	14		-	
10.3.5	directed by the Engineer					
Total carrie	d to summary page	1	<u>. </u>		-	
10.4	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					
40.4.4	specified in the Drawing					
10.4.1	500*390(mm)	Nr	1		-	
10.4.2	500*390(mm)	Nr	1		-	
10.4.3	500*390(mm)	Nr	1		-	
10.4.4	Sourse(mm)	Nr	1		-	
	Single lost motel shoot Vertical hand lifted eliding					
	ate with chain and nin lock with 0.4mX0.35m					
	$\sim 0.45 \text{ m} \times 0.45 \text{ m}$ as shown on the drawings and as	Nr	4		-	
10.4.18	directed by the Engineer					
Total carrie	Total carried to summary page					

Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
10.9	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				
10.9.1	450*450(mm)	Nr	288		-
Total carried to summary page					

BILL NO. 1	1 ACCESS AND SCHEME ROADS	BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
11.1	MAIN ACCESS ROAD				
11.1.2	Grade the main roads to appropriate camber and long slope filling depresions with approved material and provide road drains where appropriate	km	10		-
11.1.3	Provide and haul gravel material/murram spread, shape, watering and compact in layers not exceeding 150mm thickness to atleast 95% MoD AASHTO to the existing surface material (through a section of 300mm thickness and width of 4.5m)	m³	13,500		-
Total carrie	d to summary page	r	r	·	-
	Scheme road length is about 13.4 Km				
11.2	MAIN & SECONDARY CANAL SCHEME ROAD				
11.2.1	Earth work Clearing and stripping of construction area of access road along the Main and Secondary canals to formation level on completion and disposal of surplus in spoil tips including placing up to 500 m away	m²	80,400		-
11.2.2	Excavation for the road foundation on completion including treaming for v shaped side ditches	m ³	10,720		-
	Sub base gravel material material				
11.2.3	Provide and haul gravel material/murram spread, shape, watering and compact in layers not exceeding 150mm thickness to atleast 95% MoD AASHTO to the existing surface material (through a section of 300mm thickness and width of 4.5m)	m³	18,090		-
Total carri	ed to summary page				-
11.3	CULVERT CROSSING STRUCTURES				
	Earth work				
11.3.1	Pipe Culvert Structures				
11.3.2	Earth work				
11.3.3	Clearing and stripping of along the canal to formation level on completion and disposal of surplus in spoil as directed by Engineer	m²	440.00		-
	Excavate of ordinary soil to formation level on completion and disposal of surplus in spoil as directed by Engineer	m³	156.00		-
11.3.4	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		-
11.3.5	Structural work				
11.3.6	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m ³	200.67		-
11.3.7	Mass concrete class C20	m ³	96.78		-
11.3.8	To provide cut and fix in position smooth finish form work to masonry coping	m²	224.00		-
11.3.9	Lean concrete class C-15, 70mm thick blinding under the pipe floor bedding	m²	240.00		-
11.3.10	20mm thick 1:3 cement sand plaster to stone masonary drop structure	m²	301.83		-

BILL NO. 1	1 ACCESS AND SCHEME ROADS	BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
11.1	MAIN ACCESS ROAD				
11.1.2	Grade the main roads to appropriate camber and long slope filling depresions with approved material and provide road drains where appropriate	km	10		-
11.1.3	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	13,500		-
Total carrie	d to summary page				-
	Scheme road length is about 13.4 Km				
11.3.11	Precast concrete pipe and thickness as mentioned in the drawing				
11.3.12	Diameter 1200 mm	m	56.00		-
Total carried to summary page					-

BILL NO. 1	BILL NO. 12 IRRIGATION INFRASTRUCTURE FACILITIES		BOQ		
Bill No.	Description	UNIT	Q'TY	Unit Rate (UGX)	AMOUNT (UGX)
12.1					
	Type 1 three (3 no.) Cattle Troughs on SC				
12.1.1	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	m²	150		-
12.1.2	Compacted back fill with selected material	m ³	36		-
12.1.3	Structural work				-
12.1.4	2 inch GS Inlet Pipe(Size;50mm)	m	48		-
12.1.5	Compacted Selected Granular materal	m ³	25		-
12.1.6	Provide and fill with hard basaltic or equivalent stone, in sand mortar 1:3	m ³	73		-
12.1.7	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				
12.1.8	General site clearance for trough sites	ha	0.15		-
	EXCAVATION				-
	Top soil for disposal & cart to spoil 300m away from				-
12.1.9	Depth not exceeding 0.3m	m³	60.00		-
	Ordinary soil for disposal & cart to spoil 500mand				
	spread as instructed				-
12.1.10	Depth not exceeding 0.25m - 0.5m	m³	90.00		-
	BASE SLAB (PLATFORM)				-
12.1.11	Place 200mm thick approved hardcore bed & well	2	405.00		
	compacted	m-	135.00		-
	Murram Blinding				-
	Supply and place well compacted murram of the				
	following thickness				-
12.1.12	50mm thick blinding	m³	12.00		-
	REINFORCED CONCRETE				-
	Supply and cast well vibrated reinforced concrete,				
	class C25 of the following thickness				-
12.1.13	Base slab thickness not exceeding 150mm	m³	21.00		-
12.1.14	Trough base not exceeding 50mm and Walls of		0.40		
	thickness not exceeding 100mm	m³	2.10		-
	Reinforcement				-
12.1.15	Supply and fix a BRC (Wire mesh) of size A193	m ²	135 00		-
12 1 16	Supply and fix high yield bars of size V12 (see	ka	600.00		
12.1.10		ĸġ	000.00		
	Form work: fair finish				
	Plane and Vertical formwork for trough base slab				
12 1 17	Width 0.3m	m ²	00.00		
12.1.17	Diana and claning formwork for trough wells	m	90.00		-
40.4.40	Plane and sloping formwork for trough walls	2			-
12.1.18		mf	60.00		-
					-
	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				
12.1.19	OD 50 mm HDPE, PN 10	m	300.00		-
	GI Pipes				-
	Supply and fix 40mm GI pipes for the cattle watering				-
	troughs inlet				
12.1.20	Supply and fix 40mm GI pipes for the cattle watering	m	45.00		
	troughs inlet	111	-5.00		
12.1.21	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				
12.1.22	40 mm GI elbows	Nr	45.00		-
12.1.23	90X11/2" saddle clamp	Nr	12.00		-
12.1.24	40mm unions	Nr	30.00		-
12.1.25	40mm nipples	Nr	30.00		-
12.1.26	40 mm Gate valves	nr	12.00		-
Total for 3	no. type 2 cattle trough				-
Total carried to summary page					

Bill No.	Description	UNIT	Q'TY	Unit Rate (UGX)	AMOUNT (UGX)
12.2	SANITATION FACILITIES (10 No.)				
	SUB STRUCTURE				
12.2.1	General Site clearence	Ha	0.48		
	Excavation				
12.2.2	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				
12.2.3	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				
12.2.4	Ditto for vault ground level depth 2-5.	m³	22.48		-
12.2.5	Return fill and Ramp to back fill	m³	1.47		-
	Approved Hardcore filling as described;				-
12.2.6	Lay, compact and level well approved hardcore bed		0.70		
	200mm thick	ms	0.78		-
12.2.7	Blind the hardcore With 50mm sand	m²	3.87		-
12.2.8	Approved Damp proof membrane as described;				-
12.2.9	1000 Gauge horizontal polythene sheeting laid with	m2	2.07		-
	450mm laps as joints	m ,	3.87		-
	Designed mix, grade C20 concrete, to BS 5328, with				
	ordinary Portland cement to BS 12, 20mm aggregate				-
	to BS882, for the following aggregate sizes				
12.2.10	150mm thick foundation well compacted with a vibrator		0.00		
	and cured to the satisfaction of the Engineer	m³	0.39		-
12.2.11	100mm thick foundation well compacted with a vibrator		0.50		
	and cured to the satisfaction of the Engineer	۳۹	0.59		-
12.2.12	provide a pre cast concrete cover for the drainage		4.00		
	opening for the pit	nr	1.00		-
12.2.13	BRC Mesh A142 with over laps 150mm	m³	5.84		-
	Approved brickwall in cement-mortar (1:4)				-
12.2.14	Erect 200mm thick brick wall up to a height as		04.00		
	indicated in the drawings for the pit. Leave provisions	m ,	31.00		-
12.2.15	Ditto but 150mm thick brick wall from strip foundation		5.04		
	concrete	m ,	5.64		-
12.2.16	Apply 2 coats of bituminous paint to plinth wall	m²	5.64		-
	Sawn formwork as described to;				-
12.2.17	sides of concrete columns	m²	2.89		-
12.2.18	Sides and soffites of the ground beam and the	m2	0.01		
	intermediate beam	111 -	0.21		-
12.2.19	Sides and soffites of the slab with squat holes	m²	2.75		-
12.2.20	Sides of Foundations	m²	40.50		-
12.2.21	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;				
12.2.22	200mm thick reinforced concrete intermendiate and	m 3	0.69		-
	ground beam	1118	0.00		-
12.2.23	200mm reinforced concrete columns	m³	0.29		-
12.2.24	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				
	175mm thick ground slab with				-
12.2.25	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				-
12.2.26	Y10mm diameter cold worked square twisted bars at				
	including bends, hooks, binding wire in the beam to	kg	41.91		-
	Engineer's Approval				
12.2.27	8mm mild round steel links at ditto	kg	8.09		-
	Columns				-
12.2.28	Y10mm diameter cold worked square twisted bars at				
	including bends, hooks, binding wire in the beam to	kg	17.93		-
	Engineer's Approval	Ŭ			
12.2.29	8mm mild round steel links at ditto	kg	6.62		-
	SUPERSTRUCTURE	Ŭ			-
12.2.30	Approved brickwall in cement-mortar (1:4)				-
12.2.31	Approved brickwall (150mm thick) in cement-mortar		04		
	(1:4)	m²	21		-
12.2.32	Sawn formwork as described to:				-
12.2.33	Sides and soffites of reinforced concrete beam	m²	4		-
12.2.34	Reinforced concrete 1:2:4 in:				-
12.2.35	200mm reinforced concrete ring beam	m³	0.27	-	-
	Reinforcement bars to BS 4449 as described in				
	reinforced concrete ring beam				-
12.2.36	10mm cold worked square twisted high vield steel bars				
	including bends and hooks to Engineer's Approval	kg	23		-
12 2 37	8mm mild round steel links at 200 c/c ditto	ka	14		-
12.2.38	Pompei Clav Grille	Ng			-
12 2 39	150mm thick pompei Clay Grille in Cement and Sand				
12.2.00	Mortar (1:3)	m²	1		-
	Roofing				-
12 2 40	Construct roofing complete as in the drawings and as				
12.2.10	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.				-
12 2 41	225mm x 9mm pvc fascia board	m	14		-
12.2.71	FINISHING		17	-	
	Cement Sand (1:4) plaster as described:			-	-
12 2 42	Plaster the internal walls and finish smooth ready to			-	
12.2.72	receive paint	m²	15		-
12 2 /3	Ditto the external wall but finish with wooden float	m²	17		
12.2.40	Coment-sand Rough cast as described:		17		
12.2.44	Rough cast the external walls	m²	17		
12.2.40	Cement-sand screed (1:3) as described:		17		
12.2.40	20mm comparts and screed 1:3 Floor finish to the floor				
12.2.47	of the vaults and ramp, and finish smooth with a steel	m2	٥		_
	float using coment arout		5		
	PAINTING				
12.2.48	Apply one under cost and two costs finnishing of vinyl				-
12.2.40	silk emulsion paint to the surface brick plastered	m²	15		-
12.2.40	Ditto the external wall	m2	17		
12.2.43		111-	17		-
					-
	Supply and fix hardwood frame and panel door				-
	supply and its natuwood frame mode of bestweed timber with				
	uncluding a door frame made of nardwood timber with				-
	the following eizee				
40.0.50	Une following sizes				
12.2.50	40mm thick single lear hardwood frame and panel		2		
	mode of 150v50mm bordwood timber to Engine and	nr	2 ×		-
1	made of 150x50mm hardwood timber to Engineer's	1			

Bill No.	Description	UNIT	Q'TY	Unit Rate (UGX)	AMOUNT (UGX)
12.2.51	50 x 100mm mahogany timber - frames	nr	2		-
12.2.52	Ironmongery Hinges	nr	6		-
12.2.53	150mm tower blots	nr	2		-
12.2.54	2kg padlock	nr	2		-
I otal of on	e two stance lined pit latrine				0.0
10 tai carrie	C to summary page (25 no.)		Ī		0.0
12.5					
	Excavation				
12.2.1	Excavation Excavate oversite average depth 150mm to remove				
12.3.1	the vegetable soil and deposit in beans 300m away	m²	15 54		_
	from site in an appropriate place to Engineer's		10.04		
12.3.2	Excavation for foundations, in material other than top				
	soil, rock or artificial hard material, commencing	m³	10.20		-
	surface is the stripped ground level depth 0.25 - 1.5				
12.3.3	Return fill and Ramp to back fill	m³	8.64		-
12.3.4	Approved Hardcore filling as described;				-
12.3.5	Approved anti termite treatement aplied to sides and	0.14	5.04		
	bottoms of all excavations, top of hardcore etc	SIVI	5.94		-
12.3.6	Lay, compact and level well approved hardcore bed	m ³	3 60		_
	200mm thick		5.00		_
12.3.7	Blind the hardcore With 50mm sand	m²	5.94		-
	Approved Damp proof membrane as described;				-
12.3.8	1000 Gauge horizontal polythene sheeting laid with	m²	7.50		-
	450mm laps as joints				
	Designed mix, grade C20 concrete, to BS 5328,				
	with ordinary Portiand Cement to BS 12, 20mm				-
1239	100mm thick foundation well compacted with a vibrator				
	and cured to the satisfaction of the Engineer	m³	2.05		-
12.3.10	BRC Mesh A142 with over laps 150mm	m³	15.54		-
	Approved brickwall in cement-mortar (1:4)				-
12.3.11	200mm thick of blocks in 1:4 cement sand mortar for				
	plinth wall including reinforcement with mansory	см	25.20		
	anchors using galvanised mild steel ties BS 4360	SIVI	25.50		-
	(hoop iron)every two courses				
12.3.12	Apply 2 coats of bituminous paint to plinth wall	m²	25.30		-
12.3.13	Concrete blinding in pad foundation 75mm thick	SM	4.68		-
	Sawn formwork as described to;				-
12.3.14	sides of concrete columns	m²	5.60		-
12.3.15	Sides and soffites of the slab	m²	3.30		-
12.3.16	Sides of Foundations	m²	3.20		-
	Columns				-
12.3.17	Y16mm diameter cold worked square twisted bars at				
	including bends, hooks, binding wire in the beam to	kg	90.60		-
	Engineer's Approval				
12.3.18	8mm mild round steel links at ditto	kg	20.90		-
12.3.19	Concrete footing of columns	CM	3.10		-
12.3.20	Concreting to stub columns	CM	1.20		-
	SUPERSTRUCTURE				-
L	Approved brickwall in cement-mortar (1:4)				-
12.3.21	230mm thick masonry using solid block wall, mild steel		40.40		
	alu to form alternate courses of headers and	SIVI	10.10		-
12 3 22	Saven formwork as described to:				
12.0.22	Sides and soffites of reinforced concrete hear	<u>m</u> ?	1 50		-
12.3.23		111-	1.50		-

Bill No.	Description	UNIT	Q'TY	Unit Rate (UGX)	AMOUNT (UGX)
12.3.24	Reinforced concrete 1:2:4 in:				-
12.3.25	200mm reinforced concrete ring beam	m³	0.23		-
	Reinforcement bars to BS 4449 as described in				
	reinforced concrete ring beam and column				-
12.3.26	Y16mm diameter cold worked square twisted bars at				
	including bends, hooks, binding wire in the beam to	kg	139.06		-
	Engineer's Approval				
12.3.27	8mm mild round steel links at ditto	kg	42.46		-
	Roof slab				-
12.3.28	Sides and soffites of the slab	m²	15.54		-
	Reinforcement bars to BS 4449 as described in				
	reinforced concrete slab				-
12.3.29	Y8mm diameter cold worked square twisted bars at				
	including bends, hooks, binding wire in the beam to	kg	89.00		-
	Engineer's Approval	Ŭ			
12.3.30	100mm thick, reinforced concrete slab, well				
	compacted with a vibrator and cure to the satisfaction	m³	1.55		-
	of the Engineer.				
12.3.31	Concreting to columns	СМ	0.34		-
	FINISHING				-
	Cement Sand (1:4) plaster as described:				-
12 3 32	20mm thick 1:3 cement sand plaster on internal walls				
12.0.02	(internal surfaces)	m²	20.00		-
12 3 33	20mm thick 1:3 cement sand plaster on external walls				
12.0.00	(external surfaces)	m²	25.60		-
12.3.34	Cement-sand screed (1:3) as described:				
12 3 35	20mm cement sand screed 1:3 Floor finish to the floor				
12.0.00	of the vaults and ramp, and finish smooth with a steel	m ²	15 54		_
	float using cement grout		10.04		
12 3 36	Apply one under cost and two costs finishing of vinyl				
12.0.00	silk emulsion paint to the surface brick plastered	m ²	50.65		_
	including celling paint		50.05		_
12 3 37	Ditto the external wall	m²	30.50		
Total of On	e Farm shed		00.00		0.0
Total carrie	ed to summary page (10 no.)				0.0
124	GUARD HOUSE (3ng.)	1	T		0.0
12.4					
40.40					
12.4.2	Excavate oversite average depth 150mm to remove	2	45.54		
	the vegetable soil and deposit in heaps 300m away	m²	15.54		-
10.4.0	From site in an appropriate place to Engineer's				
12.4.3	Excavation for foundations, in material other than top	m 3	10.00		
	soli, fock of antificial hard material, commencing	nı.	10.20		-
1245	Surface is the surpped ground level depth 0.25 - 1.5		0.04		
12.4.5		ma	8.64		-
	Approved Hardcore filling as described;				-
12.1.15	Approved anti termite treatement aplied to sides and	SM	5.94		-
	bottoms of all excavations, top of hardcore etc				
12.4.6	Lay, compact and level well approved hardcore bed	m³	3.60		-
40.47	ZUUTIM TNICK		5.01		
12.4.7		m²	5.94		-
12.4.8	Approved Damp proot membrane as described;				-
12.4.9	1000 Gauge horizontal polythene sheeting laid with	m²	7.50		-
	450mm laps as joints				

Bill No.	Description	UNIT	Q'TY	Unit Rate (UGX)	AMOUNT (UGX)
	Designed mix, grade C20 concrete, to BS 5328,				
	with ordinary Portland cement to BS 12, 20mm				-
	aggregate to BS882, for the following aggregate				
12.4.11	100mm thick foundation well compacted with a vibrator	m ³	2.05		-
10.1.10	and cured to the satisfaction of the Engineer				
12.4.13	BRC Mesh A142 with over laps 150mm	m ³	15.54		-
	Approved brickwall in cement-mortar (1:4)				-
12.1.19	200mm thick of blocks in 1:4 cement sand mortar for				
	plinth wall including reinforcement with mansory	SM	25.30		-
	anchors using galvanised mild steel ties BS 4360				
12/16	(noop iton)every two courses	m ²	25.20		
12.4.10	Apply 2 coals of bituminous paint to plintin wall	10 ²	25.30		-
12.1.27	Concrete blinding in pad foundation 75mm thick	SM	4.68		-
	Sawn formwork as described to;				-
12.4.17	sides of concrete columns	m²	5.60		-
12.4.19	Sides and soffites of the slab	m²	3.30		-
12.4.20	Sides of Foundations	m²	3.20		-
	Columns				-
12.4.28	Y16mm diameter cold worked square twisted bars at				
	including bends, hooks, binding wire in the beam to	kg	90.60		-
	Engineer's Approval				
12.4.29	8mm mild round steel links at ditto	kg	20.90		-
12.1.29	Concrete footing of columns	CM	3.10		-
12.1.30	Concreting to stub columns	CM	1.20		-
	SUPERSTRUCTURE				-
	Approved brickwall in cement-mortar (1:4)				-
12.1.40	230mm thick masonry using solid block wall, mild steel				
	laid to form alternate courses of headers and	SM	17.74		-
	stretchers, laid on and incl.mortar ratio 1:3				
12.4.32	Sawn formwork as described to;				-
12.4.33	Sides and soffites of reinforced concrete beam	m²	1.56		-
12.4.34	Reinforced concrete 1:2:4 in:				-
12.4.35	200mm reinforced concrete ring beam	m³	0.23		-
	Reinforcement bars to BS 4449 as described in				_
	reinforced concrete ring beam and column				_
12.4.36	Y16mm diameter cold worked square twisted bars at				
	including bends, hooks, binding wire in the beam to	kg	139.06		-
40.4.07	Engineer's Approval		40.40		
12.4.37	8mm mild round steel links at ditto	кg	42.46		-
10.1.01	Root slab				-
12.4.21	Sides and soffites of the slab	m²	15.54		-
	Reinforcement bars to BS 4449 as described in				-
10.4.26	reinforced concrete slab				
12.4.30	including bonds, books, binding wire in the boom to	ka	80.00		
	Engineer's Approval	ĸġ	09.00		-
12 4 24	100mm thick reinforced concrete slab well				
	compacted with a vibrator and cure to the satisfaction	m ³	1.55		-
	of the Engineer.				
12.1.30	Concreting to columns	СМ	0.34		-
	FINISHING				-
	Cement Sand (1:4) plaster as described:				-
12.1.41	20mm thick 1:3 cement sand plaster on internal walls		a =		
	(internal surfaces)	m²	27.64		-

Bill No.	Description	UNIT	Q'TY	Unit Rate (UGX)	AMOUNT (UGX)
12.1.42	20mm thick 1:3 cement sand plaster on external walls (external surfaces)	m²	33.24		-
12.4.46	Cement-sand screed (1:3) as described;				-
12.4.47	20mm cement:sand screed 1:3 Floor finish to the floor of the vaults and ramp, and finish smooth with a steel	m²	15.54		-
	float using cement grout				
	PAINTING				-
12.4.48	Apply one under coat and two coats finishing of vinyl silk emulsion paint to the surface brick plastered including celling paint	m²	51		-
12.4.49	Ditto the external wall	m²	31		-
	Semisolid Door as per drawing including paint	No	1		-
	Metallic bugler Window including paint	No	2		_
Total of one	e Guard house		L		0.0
Total carrie	ed to summary page (3 no.)				0.0
12.5	SCHEME EQUIPMENT				
12.5.1	Supply of motor bikes	Nr	2.00		-
12.5.2	Supply of bicycles	Nr	5.00		-
12.5.3	Provide personal office computers for scheme use as per specification	Nr	4.00		-
12.5.4	Supply office printer for the use of the scheme as per specifications	Nr	2.00		-
12.5.5	Supply of silt stirrers (3 No)	Nr	3.00		-
12.5.6	Supply of Workshop equipment and tools in accordance with section specification	P.Sum	1.00	20,000,000	20,000,000.00
12.5.7	Provisional sum for technical training	P.Sum	1.00	25.000.000	25.000.000.00
12.5.8	Provisional sum for systems support and technology transfer	Nr	4.00	90,000,000	360,000,000.00
12.5.9	Contractor's handling charge on all provisional sums under item 12.5.6, 12.5.7 and 12.5.8 above	%	10.00		
Total carrie	ed to summary page				
12.6	BOUNDARY AND IRRIGATION BLOCK MARK STONES, MEASURING STAFF GAUGE				
12.6.1	Provide for manufacture, installation and supervision of UNRA Standard boundary mark stones, engraved with project name as directed by the Engineer	Nr	40		-
12.6.2	Provide for manufacture, installation and supervision of Irrigation block mark stones, engraved with the block name as specified in the drawing as directed by the Engineer	Nr	18		-
12.6.3	Provide for manufacture, installation and supervision of Aluminium staff gauge with 4mm thickness specified in the drawing and as directed by the	Nr	31		-

BILL NO.13	B: SCHEME BUILDINGS	BOQ			
Bill No.	Description	Unit	Quantity	Unit Rate (UGX)	AMOUNT (UGX)
13.1	OFFICE BLOCK				
	Earthwork & Masonry Foundation				
13.1.1	Strip top soil to an average depth of 200mm.	Sqm	320		-
13.1.2	Common excavation in Stone Masonry foundation	•			
	trench to a depth not greater than 2.0 meters. The	Cum	160		-
1010	Work includes dewatering, protection and all	Cum	070		
13.1.3	Bulk Excavation in normal soli	Cum	212		-
13.1.4	Extra over for item 1.2 to 1.3for Excavation in Soll	Cum	42		-
13.1.5	Cart away all surplus aveayated material from site to	Cum	42		-
13.1.0	a distance not less than one kilometer.	Cum	400		-
13.1.7	Fill and compact selected granular material for 95%				
	of proctor density layer by layer and each	Cum	170		-
	compacted layer shall be 200mm thick.				
13.1.8	Anti-termite treatment on tops of hardcore surfaces and sides and bottoms of excavation	sqm	175		-
13.1.9	250 mm thick basaltic stone or equivalent hard core				
	filling over the selected fill, compaced and blinded	Sqm	175		-
	with crushed stones.				
13.1.10	500mm thick Stone masonry Wall costruction	Cum	55		-
10.4.44	Concrete Work				-
13.1.11	Cut, Place in position and tie deformed				
	reinforcement bars as per the drawing and the	Kg	1750		-
	minimum tensile yeliding strength of the	-			
13 1 12	Placing formwok for for grade beam ton tie beam				
10.1.12	column, edge of slab etc.	Sqm	130		-
13.1.13	100mm thick Class C-10 lean concrete over the	•			
	hard core incl below foundation.	Sqm	233		-
13.1.14	150mm thick Class C-25 Concrete in floor slab	Sqm	170		-
13.1.15	RC concrete Class C-25 in beams and column	Cum	15.2		-
13.1.16	Damp proof membrane of 500 gauge polythene	Sam	200		_
	damp proof membrane including 300mm laps	Oqin	200		_
13.1.17	Bituminous felt damp proof course: 150mm wide,	lm	110		-
	200mm laps		-		
12 1 10	WALL Supply and Blaza 200mm thick HCB for External				-
13.1.10	Wall as shown in the drawing. The binding	Sam	170		_
	material shall be coment sand mortar in the ratio of	Sqiii	170		-
13 1 19	Supply and Place 150mm thick HCB for partion				
101110	Wall, as shown in the drawing. The binding	Sam	110		-
	material shall be cement sand mortar in the ratio of				
	Floor and Wall Finishing Work				-
13.1.20	Two Coats of Plastering and one coat rendering or	Sam	170		_
	smooth finish to external wall as directed	Sqiii	170		-
13.1.21	Three coats of wall plastering to internal walls in	Sqm	400		-
12 1 22	smooth finish	1			
13.1.22	approved Synthetic point to externa wall	Sqm	170		-
13 1 23	Prepare surfaces: apply three Coats "Sadolin" or				
10.1.20	any approved silk vinyl paint to internal wall	Sqm	400		-
13.1.24	Three coats of ceiling paint "Sadolin" or any				
	approved water paint in smooth finish with all	Sqm	180		-
	necessary works including fascia board.				
13.1.25	PVC 3mm thick Tile floor finish layed over 48mm	Sam	170		
	thick cement screed	Sqiff	170		-
13.1.26	Supply & Fix in position for Terarazzo Tile Window	ml	19.7		_
	Sill, Cross Sectional area of the tile is 250mmx25.				

	Pavement & Drainage Ditch around the Building			-
13 1 27	Construction of 600mm wide pavement (splash			
10.1.27	apron) around the building the work shall include			
	excevation 200mm selected material placing &			
	compaction, 250mm bard care above the selected			
	fill and 100mm thick C 15 concrete including RPC	Sam	50	
	A252 welded mean in ten. The work shall also	Sqiii	52	-
	A252 weided mesh in top. The work shall also			
	include smooth missing work with 25mm trick			
	ditch around the and of the newsment			
	Deer Widew and Deefing Works			
	Door and Window			-
13 1 28	Supply and Fix in Position door D2 (900 mm x 2800			-
15.1.20	mm) solid woddon or oguivalant including frame			
	architrave and all necessary work as described in	No.	12	-
	the drawing and schedule and approved by the			
13 1 29	Supply and Fix in Position door, D3 (1000 mm x			
10.1.20	2800 mm) solid wodden or equivalent including			
	frame architrave and all necessary works as	No.	3	-
	described in the drawing and schedule and			
13 1 30	Supply and Fix in Position window W1			
10.1.00	(2530x1600mm) LTZ framed grilled and glazed			
	with 4mm glass as described in the drawing and	No.	12	-
	schedule and approved by the Engineer			
13 1 31	Rofing & Ceiling			-
13 1 32	Supply and fix roof truss for two block offices			
10.1.02	constructed out of timber of main & horizontal rafter			
	6x2inch, diagonal 4x2inch and 70mmx50mm purlin			
	as per the drawing and the truss members shall be	IS		
	made well seasoned to avoid warping because of			
	unsatifactory seasoning time. The Work shall			
	include all necessary work to fix the truss and purlin			
13.1.33	Supply and fix 8mm thick chipwood ceiling including	_		
	50mmx40mm battens at a spacing of 600mm in both	Sqm	170	-
	directions.			
13.1.34	Supply and fix G-28, pre-painted galvanized iron			
	sheet roofing cover including fixing to the truss	Sqm	260	-
	members, ridges and valleys.			
13.1.35	Supply and Fix Timder Facia Board of Size		00	
	250x25mm including oil paint to prevent twisting and	m	90	-
13.1.36	Supply and fix Fix Gutter & Down Pipe for two office			
	blocks manufactured out of Gage -30 galvanized			
	sheet metal including all accessories and welding	LS		
	for fixing in position.			
Total carrie	ed to summary page		1	 0.0
13.2	RESIDENTIAL BUILDING			
40.04	Earthwork & Masonry Foundation		750	
13.2.1	Strip top soil to an average depth of 200mm.	Sqm	750	-
13.2.2	Common excavation in Stone Masonry foundation	0	000	
	trench to a depth not greater than 2.0 meters. The	Cum	200	-
10.0.0	Work includes dewatering, protection and all		200	
13.2.3	Duik Excavation in normal Soli Extra over for item 1.2 to 1.2 for Execution in coff	Cum	200	-
13.2.4	Extra over for item 1.2 to 1.3 of Excavation in bard	Cum	50	-
12.2.5	Cart away all surplus aveauated material from site to	Culli	- 50	-
13.2.0	a distance not less than one kilometer	Cum	550	-
12 2 7	Fill and compact selected grapular material for 05%			
13.2.1	of proctor density layer by layer and each	Cum	170	
	compacted layer shall be 200mm thick	Guill	170	-
13.2.8	Anti-termite treatment on tops of hardcore surfaces			
10.2.0	and sides and bottoms of excavation	sqm	175	-

				-	
13.2.9	250 mm thick basaltic stone or equivalent hard core filling over the selected fill, compaced and blinded with smalled stores.	Sqm	170		-
40.0.40	with crushed stones.	0	00		
13.2.10	Source thick Stone masonry wall costruction	Cum	60		-
13.2.11	Concrete work Cut, Place in position and tie deformed reinforcement bars as per the drawing and the minimum tensile yeilding strength of the reinforcement bars shall be 400MPA	Kg	2200		-
13.2.12	Placing formwok for for grade beam, top tie beam, column, edge of slab etc,	Sqm	130		-
13.2.13	100mm thick Class C-10 lean concrete over the hard core incl below foundation.	Sqm	170		-
13.2.14	150mm thick Class C-25 Concrete in floor slab	Sqm	165		-
13.2.15	RC concrete Class C-25 in beams and column	Cum	18.5		-
13.2.16	Damp proof membrane of 500 gauge polythene damp proof membrane including 300mm laps	Sqm	225		-
13.2.17	Bituminous felt damp proof course: 150mm wide, 200mm laps	lm	130		-
	WALL				-
13.2.18	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		-
13.2.19	Supply and Place 150mm thick HCB for partion Wall, as shown in the drawing . The binding material shall be cement sand mortar in the ratio of	Sqm	68		-
	Floor and Wall Finishing Work				-
13.2.20	Two Coats of Plastering and one coat rendering or smooth finish to external wall as directed	Sqm	130		-
13.2.21	Three coats of wall plastering to internal walls in smooth finish	Sqm	270		-
13.2.22	Prepare surfaces: apply three Coats"Sadolin" or any approved Synthetic paint to externa wall	Sqm	130		-
13.2.23	Prepare surfaces: apply three Coats "Sadolin" or any approved silk vinyl paint to internal wall	Sqm	270		-
13.2.24	Three coats of ceiling paint "Sadolin" or any approved water paint in smooth finish with all necessary works including fascia board.	Sqm	165		-
13.2.25	PVC 3mm thick Tile floor finish layed over 48mm thick cement screed	Sqm	165		-
13.2.26	Supply & Fix in position for Terarazzo Tile Window Sill, Cross Sectional area of the tile is 250mmx25.	ml	30		-
13.2.27	Provide and fix ceramic floor tile for toilets with all necessary work. The ceramic floor tiles : bedded and jointed in approved adhesive : pointed with approved coloured grout : to with all necessary work	Sqm	14		-
13.2.28	Provide and fix Non slip ceramic wall tile upto 1.5m height for toilets. The ceramic floor tiles : bedded and jointed in approved adhesive : pointed with approved coloured grout : to with all necessary work	Sqm	33		-
13.2.29	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		-

13.2.30				1
	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	sam	40	_
	reifereement ber meeh et e energing of 200mm e/e	Sqiii	40	-
	renorcement bar mesh at a spacing of 200mm c/c.			
	I he work shall also include smooth finishing work			
	with 25mm thick cement mortar screeding and			
	construct drainage ditch at the side of the walkway			
13.2.31	Provide truss and supply and fix gauge-28			
	galvanised iron sheet roofing for walkway including	-		
	4x2inch rafterand 70mmx50mm purlin as shown in	Sqm	40	-
	the drawing& specification and directed by the			
	Deer Widew and Boofing Works			
40.0.00	Currely and Fixin Desition deer D4 (2000 + 2000			-
13.2.32	Supply and Fix in Position door, D1 (2000 x 2800			
	mm) solid wodden or equivalent including frame,	No	2	-
	architrave and all necessary works as described in	110.	-	
	the drawing and schedule and approved by the			
13.2.33	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	No.	11	-
	the drawing and schedule and approved by the			
40.0.04	the drawing and schedule and approved by the			
13.2.34	Supply and Fix in Position door, D4 (700x2800mm)			
	solid wodden or equivalent including frame,	No	5	_
	architrave and all necessary works as described in	140.	Ŭ	
	the drawing and schedule and approved by the			
13.2.35	Supply and Fix in Position window, W3 (
	2000x1600mm) I TZ framed grilled and glazed with	No	11	-
	Amm glass as described in the drawing and	110.		
12.2.20	Supply and Fix in Desition window WE (
13.2.30	Supply and FIX in Position window, W5 (_	
	600x750mm) LIZ framed and glazed with 4mm	No.	5	-
	glass as described in the drawing and schedule.			
	Roof and Ceiling			-
13.2.37	Supply and fix roof truss for two block offices			
	constructed out of timber of main & horizontal rafter			
	constructed out of timber of main & horizontal rafter			
	constructed out of timber of main & horizontal rafter 6x2inch, diagonal 4x2inch and 70mmx50mm purlin as per the drawing and the truss members shall be	15		_
	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		-
	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	LS		-
	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	LS		-
	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	LS		-
13.2.38	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 Supply and fix 8mm thick chipwood ceiling including	LS		-
13.2.38	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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both	LS	165	-
13.2.38	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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions.	LS Sqm	165	-
13.2.38	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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions.	LS Sqm	165	-
13.2.38	 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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss 	LS Sqm	165	-
13.2.38	 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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members. 	LS Sqm Sqm	165 280	-
13.2.38	 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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. 	LS Sqm Sqm	165 280	-
13.2.38 13.2.39 13.2.40	 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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 	LS Sqm Sqm	165 280 115	-
13.2.38 13.2.39 13.2.40	 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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and 	LS Sqm Sqm m	165 280 115	-
13.2.38 13.2.39 13.2.40 13.2.41	 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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and Supply and fix Fix Gutter & Down Pipe for two office 	LS Sqm Sqm m	165 280 115	-
13.2.38 13.2.39 13.2.40 13.2.41	 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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and Supply and fix Fix Gutter & Down Pipe for two office blocks manufactured out of Gage -30 galvanized 	LS Sqm Sqm m	165 280 115	-
13.2.38 13.2.39 13.2.40 13.2.41	 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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and Supply and fix Fix Gutter & Down Pipe for two office blocks manufactured out of Gage -30 galvanized sheet metal including all accessories and welding 	LS Sqm Sqm m LS	165 280 115 1	-
13.2.38 13.2.39 13.2.40 13.2.41	 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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and 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 fixing in position. 	LS Sqm Sqm m LS	165 280 115 1	-
13.2.38 13.2.39 13.2.40 13.2.41	 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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and 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 fixing in position. 	LS Sqm Sqm M LS	165 280 115 1	-
13.2.38 13.2.39 13.2.40 13.2.41 Total carrie	 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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and 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 fixing in position. 	LS Sqm Sqm LS	165 280 115 1	- - - - - 0.0
13.2.38 13.2.39 13.2.40 13.2.41 Total carrie	 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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and 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 fixing in position. 	LS Sqm Sqm LS	165 280 115 1	- - - - - 0.0
13.2.38 13.2.39 13.2.40 13.2.41 Total carrie 13.3	 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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and 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 fixing in position. 	LS Sqm Sqm LS	165 280 115 1	- - - - - 0.0
13.2.38 13.2.39 13.2.40 13.2.41 Total carrie	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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and 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 fixing in position. ed to summary page STORAGE BUILDING EARTHWORK	LS Sqm Sqm LS	165 280 115 1	- - - - - - - -
13.2.38 13.2.39 13.2.40 13.2.41 Total carrie 13.3 13.3.1	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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and 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 fixing in position. ed to summary page STORAGE BUILDING EARTHWORK Site clearance of construction area	LS Sqm Sqm LS SM	165 280 115 1 4000	- - - - - - - - - -
13.2.38 13.2.39 13.2.40 13.2.41 Total carrie 13.3 13.3.1 13.3.2	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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and 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 fixing in position. ed to summary page STORAGE BUILDING EARTHWORK Site clearance of construction area Exacavate to reduce levels average 200mm deep	LS Sqm M LS SM	165 280 115 1 4000 2550	- - - - - - - - - - - -
13.2.38 13.2.39 13.2.40 13.2.41 Total carrie 13.3 13.3.1 13.3.2	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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and 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 fixing in position. det to summary page STORAGE BUILDING EARTHWORK Site clearance of construction area Exacavate to reduce levels average 200mm deep to remove vegetable soil and cart away from site	LS Sqm Sqm LS SM CM	165 280 115 1 4000 2550	- - - - - - - - - - - - - -
13.2.38 13.2.39 13.2.40 13.2.41 Total carrie 13.3 13.3.1 13.3.2 13.3.3	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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and 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 fixing in position. dt to summary page STORAGE BUILDING EARTHWORK Site clearance of construction area Exacavate to reduce levels average 200mm deep to remove vegetable soil and cart away from site Exacavate to reduce levels average 2meter deep to	LS Sqm Sqm LS SM CM	165 280 115 1 4000 2550	- - - - - - - - - - - -
13.2.38 13.2.39 13.2.40 13.2.41 Total carrie 13.3 13.3.1 13.3.2 13.3.3	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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and 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 fixing in position. det to summary page STORAGE BUILDING EARTHWORK Site clearance of construction area Exacavate to reduce levels average 200mm deep to remove vegetable soil and cart away from site Exacavate to reduce levels average 2meter deep to remove vegetable soil and cart away from site	LS Sqm Sqm LS SM CM CM	165 280 115 1 4000 2550 3160	- - - - - - - - - - - - - - - - -
13.2.38 13.2.39 13.2.40 13.2.41 Total carrie 13.3 13.3.1 13.3.2 13.3.3	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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and 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 fixing in position. ed to summary page STORAGE BUILDING EARTHWORK Site clearance of construction area Exacavate to reduce levels average 200mm deep to remove vegetable soil and cart away from site Exacavate to reduce levels average 2meter deep to remove vegetable soil and cart away from site	LS Sqm Sqm LS SM CM CM	165 280 115 1 4000 2550 3160	- - - - - - - - - - - - - - - - - -
13.2.38 13.2.39 13.2.40 13.2.41 Total carrie 13.3 13.3.1 13.3.2 13.3.3 13.3.4	 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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and 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 fixing in position. StorAGE BUILDING EARTHWORK Site clearance of construction area Exacavate to reduce levels average 200mm deep to remove vegetable soil and cart away from site Exacavate to reduce levels average 2meter deep to remove vegetable soil and cart away from site 	LS Sqm Sqm M LS SM CM CM	165 280 115 1 4000 2550 3160	- - - - - - - - - - - - - - -
13.2.38 13.2.39 13.2.40 13.2.41 Total carrie 13.3 13.3.1 13.3.2 13.3.3 13.3.4	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 Supply and fix 8mm thick chipwood ceiling including 50mmx40mm battens at a spacing of 600mm in both directions. Supply and fix G-28, pre-painted galvanized iron sheet roofing cover including fixing to the truss members, ridges and valleys. Supply and Fix Timder Facia Board of Size 250x25mm including oil paint to prevent twisting and 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 fixing in position. d to summary page STORAGE BUILDING EARTHWORK Site clearance of construction area Exacavate to reduce levels average 200mm deep to remove vegetable soil and cart away from site Exacavate to reduce levels average 2meter deep to remove vegetable soil and cart away from site Exacavate pit for 45 in No.base column footings (pad foundation)not exceeding 1.50 metres deep from	LS Sqm Sqm M LS SM CM CM CM	165 280 115 1 4000 2550 3160 210	- - - - - - - - - - - - - - -

13.3.5	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			
13.3.6	Approved anti termite treatement aplied to sides and	<u>CM</u>	0550	
	bottoms of all excavations, top of hardcore etc	2101	2550	-
13.3.7	Return, fill with murram around foundation footings			
	and under the slab well ram in layers (well	CM	1050	_
	compacted) not exceeding 230mm thick to receive	Civi	1030	_
	hardcore under a concrete slab			
13.3.8	Remove surplus excavated materials from site to	СМ	200	-
	where irected as per the regulations of the council.	0.1		
13.3.9	200mm thick levelled compacted hardcore filling	SM	1700	-
13.3.10	50mm thick sand Blinding	SM	1700	-
13.3.11	G 1000 gauge microslip membrane (DPM) with	SM	1700	-
	200mm laps			
12 2 12	Concrete			
13.3.12	an floor alah	Kgs	400	-
12 2 12	150mm thick C 25 concrete floor clab	SW	1700	
12 2 14	Concrete 5 10 blinding in pad foundation 75mm	SIVI	1/00	-
13.3.14	PC Concrete C-25 to foundation footing	CM	21	-
13.3.13	PC Concret C-25 to footing columns	CM	16.5	-
13.3.10	Concreting C-25 to grade beam	CM	25	-
13 3 18	Sawn formwwork to footng, column, grade beam &	ON	20	
10.0.10	edge of slb	Sqm	310	-
13 3 19	Mild BS 4483 and High tensile steel BS 4464			
	reinforcement bars with binding wire as described:			-
а	8mm	Kas	750	-
b	10mm	Kqs	920	
С	14mm	Kqs	1100	-
d	16mm	Kgs	1400	-
3	SUPERSTRUCTURE			-
	STRUCTURAL WORKS			-
13.3.20	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	Sqm	1710	-
	and 4no soft 20mm foundation bolts	•		
	b) IPE 330-section ratters cut to the required angles			
	on top and bottom and jointed with 2nos of 12mm			
	thick 350X130mm steel plates bolted with shos of			
	W20 G8-800its on webs per given detail and all fillet			
	a) C purlip or 120mm x 50mm x 20mm x2mm			
	(Pof ZP 30) steel Zed-purling bolted to top chord			
	through 100x100x4mm L cleats including all			
	necessary bolts and nuts to Structural Engineer's			
L				
	ROOFING			-
13.3.21	ROOFING 26 Gauge.Blue painted Super Eco profile roofing			-
13.3.21	ROOFING 26 Gauge,Blue painted Super Eco profile roofing sheets,fixed to Z-Purlins frame with and including			
13.3.21	ROOFING 26 Gauge,Blue painted Super Eco profile roofing sheets,fixed to Z-Purlins frame with and including approved J-hook bolts,nuts and washers,fixed in		20000	-
13.3.21	ROOFING 26 Gauge,Blue painted Super Eco profile roofing sheets,fixed to Z-Purlins frame with and including approved J-hook bolts,nuts and washers,fixed in accordance with the engineer's instructions and	SM	2000	-
13.3.21	ROOFING 26 Gauge, Blue painted Super Eco profile roofing sheets, fixed to Z-Purlins frame with and including approved J-hook bolts, nuts and washers, fixed in accordance with the engineer's instructions and drawings. The work includes placing Ridge caps,	SM	2000	-

13.3.22	Cladding Sheeting Comprising 26 gauge pre-			
	gables with fiberglass wool, purlin top hats, self	_		
	drilling screws, flashings and all fixtures necessary	Sqm	1350	-
	for erection. It also comprise of cladding rails, anti-			
10.0.00	sag bars and including all fixtures necessary for			
13.3.23	Fascia boards 4m length (190mmx30mmx1mm)	LM	220	-
15.5.24	50mmx40mm battens at a spacing of 600mm in both	Sam	100	-
	directions.	oqn	100	
13.3.25	Provide Rainwater harvesting Comprising eaves			
	gutters made from 1.5mm thick pre galvanized	LS		-
	plates, PVC down pipes, gutter brackets and all			
13.3.26	Allow sum for fibre Glass Translucent Sheets			
	comprising 1 sheet per slope per 2 bay in 1mm thick			
	fiberglass UV protected 3.5m long milky finish type			
	(Subject to slight tint variations) translucent sheets,			
	and all fixtures necessary for erection. Safety	LS		-
	Frames under each translucent sneet, comprising			
	sheet profile to provide additional safety. The work			
	will be done only if instructed and approved by the			
13.3.27	Allow sum of Roof Ventilator comprising CYCLONE			
	600 Series (1 No. per 4 bays) near the apex	LS		-
	consisting of galvanized steel components including			
	BLOCK WORK			
13.3.28	230mm thick using solid block wall, mild steel laid to			
	form alternate courses of headers and	SM	500	-
	stretchers, laid on and incl.mortar ratio 1:3, Th			
13.3.29	150mm thick using solid block wall, mild steel laid to		0.5	
	form alternate courses of headers and	SM	35	-
	WALL FINISHES			-
13.3.30	20mm thick 1:3 cement sand plaster on internal	014	040	
	walls (internal surfaces)	SM	610	-
13.3.31	20mm thick 1:3 cement sand plaster on external	SM	500	-
13 3 32	Walls (external surfaces)	SM	1700	
13.3.33	Prepare surfaces: apply three Coats"Sadolin" or any	3101	1700	-
	approved Synthetic paint to externa wall	SM	500	-
13.3.34	Prepare surfaces: apply three Coats "Sadolin" or	SM	610	_
	any approved silk vinyl paint to internal wall	5101	010	-
13.3.35	Three coats of ceiling paint "Sadolin" or any	CM	100	
	approved water paint in smooth linish with all necessary works including fascia board	SIVI	100	-
13.3.36	Two Tier of of 200mm thick concrete louver vents	SM	80	-
	DOORS and WINDOWS			-
13.3.37	Supply and Fix in position fabricatel sliding steel			
	shutter door of 3000mm x 2500mm height for the			
	fittings binges pecessary paints, steel sbutter, and	No	3	_
	all necessary fittings and materials to fix and erect	NO	5	_
	the sliding gate and make it operational as per the			
	instruction and approval given by the Engineers			
13.3.38	Supply and Fix in Position door, D1 (900 mm x 2100			
	mm) solid wodden or equivalent including frame,	No	8	-
	architrave and all necessary works as described in the drawing and schedule and approved by the			
13.3.39	Supply and Fix in Position door. D2 (700 mm x 1000			
	mm) door or equivalent including frame, architrave	No	Λ	
	and all necessary works as described in the drawing	INU	4	-
	and schedule and approved by the Engineer.			

13.3.40	Supply and Fix in Position window, W1 (1800x1200mm) LTZ framed, grilled and glazed with 4mm glass as described in the drawing and schedule and approved by the Engineer	No	1	-
13.3.41	Supply and Fix in Position window, W2 (1250x1200mm) LTZ framed, grilled and glazed with 4mm glass as described in the drawing and schedule and approved by the Engineer		4	-
13.3.42	Supply and Fix in Position window, W3 (600x1200mm) LTZ framed, grilled and glazed with 4mm glass as described in the drawing and schedule and approved by the Engineer.	No	3	-
	WATER SUPPLY and SANITORY WORKS			
13.3.43	Allow a sum for water supply includung the internal plumbing system, sanitary fittings (four WC, three Handwash basin, two water points), all necessary plumbing works, connection to the water tank and all necessary as directed and approved by the	LS		
13.3.44	Allow a sum for Sanitory fittings and waste water line. The work includes supply and fix four WC & three Hand Wash basin, internal plumbing system, two water point, waste water connection, connection to the water tank and septic tank and all necessary works as directed and approved by the Engineer	LS		
13.3.45	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 plumbing works and materials necessary as directed and approved by the Engineer	LS		-
13.3.46	Supply all materials and construct one septic tank according to drawing. Include for water proof cement rendering, benching, fittings and smoothening of channels etc as specified and directed on site. The work includes construction of	LS		-
13.3.47	Allow a sum for electrical installation. The work includes wiring, placing lightining fixtures, sockets, switches, security lights, consumer units and all necessary electical fixtures and material to make the light system operational as directed and approved	LS		 -
13.3.48	Allow a sum for exetension of the power line to main government line	LS		-
13.3.49	Allow a sum for supply and erect Chain link of gauge 10 pitch size 50x50mm fencing consists of 2.5 mm barbed on top of the chain link fixed to 11/2inch GI pipe posts spaced every 2.5m. The work includes supply and erect of 7m width steel gate and all necessary works to put the fence and gate as directed and approved by the Engineer.	LS		-
Total carrie	ed to summary page	T	T	 0.0
13.4	COMPOUND WORK Compound Pavement	0.000	0050	
13.4.1	Strip top soil to an average depth of 200mm.	Sqm	2250	-
13.4.2	Bulk Excavation in normal soil to receive murrum and sand for paver	Cum	470	 -
13.4.3	Fill and compact selected granular material for 95% of proctor density.	Sqm	2200	-
13.4.4	Fill above selected material sand to receive pavers	Sqm	2200	 -
13.4.5	Place pavers of 6cm thick including curbstoneas directed and aproved by the Engineer in charge	Sqm	2200	-
13.4.6	Cart away all surplus excavated material from site to a distance not less than one kilometer.	Cum	800	-

	Fence work and Gate				-
13.4.7	Supply and erect Chain link of gauge 10 pitch size				
	50x50mm fencing consists of 2.5 mm barbed on top				
	of the chain link fixed to 11/2inch GI pipe posts				
	spaced every 2.5m. The wor includes supply and				
	erect of 11/2inch GI pipe post anchored in concrete	m	320		-
	at every 2.5m and all necessary material to fix				
	chainlink, GI pipe post and babedwire as per the				
	drawing and directed by the Engineer. It includes				
	also intermediate, corner and bracing pipes as				
13.4.8	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	No	1		-
	approved paint extensions 300mm high on top.	_			
	Whole to be covered (Gate to be provided with				
	approved catch and fastenings bolts for holding in				
	open position and supplied with padlock and keys)				
13/0	Supply and construct 1m width pedestrian steel gate				
10.4.0	between the fence of Office and accomposition area	No	1		_
	as approved and directed by the Engineer in charge	NO	1		_
	Water Tenk Stond				
12 4 40	Water Tank Stand				-
13.4.10	Supply and installation of steel structure for water				
	tank of 20,000 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				
13.4.11	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				-
13.4.12	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	1		-
	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				-
13.4.13	Construct four toilet rooms at block E as per the				
	drawing and instructed & directed by the Engineer.				
	The work includes necessary earth work.				
	Foundation masonry wall. Grade beam, hardcore	LS	1		-
	slab, wall, 3 coat of plastering, 3 coat of painting				
	ceiling, Roof work, and all necessary work as per				
13 4 14	Provide and fix ceramic floor tile for toilets with all				
10.7.14	necessary work. The ceramic floor tiles - hedded				
	and jointed in approved adhesive : pointed with	Sqm	20.2		-
	and jointee in approved denesive . pointee with				
l	approved coloured grout. to with all necessary WOR			1	1

13.4.15	Provide and fix Non slip ceramic wall tile upto 1.5m height for toilets. The ceramic floor tiles : bedded and jointed in approved adhesive : pointed with	Sqm	46		-
	approved coloured grout : to with all necessary work				
13.4.16	Supply and fill with fertile soil the green area part of the compound. The work includes preparing the green area so that to make ready for planting grass, flowers, trees and all necessary plants as directed and approved by the Engineer.	LS	1		-
13.4.17	Prepare and construct parking area as per the	15	1		-
Tatalaani	drawing and directed and approved by the Engineer	20			
I otal carrie	d to summary page		1		0.0
13.5	WATER SUPPLY AND SANITARY				
	Water Supply				
13.5.1	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
13.5.2	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
13.5.3	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		
13.5.4	Supply and install submersible solar pump with required out put of $Q = 10m3/day$. and H=100m, complete with dry running protection.	Nr	1		
13.5.5	AC pump controller to run the pump with $Q = 10m^3/day$ and $H = 100m$	Nr	1		
13.5.6	330Wp Mono crystalline Solar Panel, optimum				
	voltage 34 – 38V, current 8-9 Amps	Nr	10		
13.5.7	SOLAR PANEL MOUNTING GALVANIZED STRUCTURE complete with Metallic structures and civil platforms, 3 m off the ground for solar panels.	LS	10		
13.5.8	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		
13.5.9	DROP CABLE 4mm2×4CORE,FLAT CABLE	m	20		
13.5.10	ELECTRODES (PAIR)	nr	2		
13.5.11	0.75mm2 ELECTRODE CABLE	m	20		
13.5.12	2" GI Pipe	m	10		
13.5.13	EARTHING SYSTEM (25mm2 earth wire, copper mat, copper clamp, concrete earth pit & conductivity improvement materials)	LS	1		
13.5.14	ELECTRICAL ACCESSORIES FOR INSTALLATION: cable tray Trunking about 5m, 6mm2 Underground (U/G) cable 40m includes all electricals for generator installations	LS	1		
13.5.15	Fittings (4no. 2"GI bends, 4 no. 2"GI nipples, 4no. GI Tees, 1 No. 2"water meter (dry type), 3 No. 2"HDPE adapters, 1no. 2"Air valve, 3no. 2"GI unions, 2 no. Global valve, 1 no.1/2" pressure gauge, 1 no. pressure sensor complete with switch.	LS	1		
13.5.16	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				

1			1		
	Supply and instal all necessary pipe works for				
	accomodation block, canten kitchen & toilet and				
	toilet at block F. All pipe work shall be PPR PN 20				
	all diameters below are internal pine works shall be				
	an 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.				
13.5.17	1/2inch GI pipe or PPR cold water Pipe work	m	100		-
13.5.18	3/4inch GI pipe or PPR cold water Pipe work	m	75		-
	External Plumbing				-
13 5 10	Supply and instal all necessary nine works to				
15.5.13	corport to the internal alumbian line. All nine work				
	connect to the internal plumbing line. All pipe work				
	shall be PPR diameters of 3/4inch or 1inch as				
	instructed by th Engineer. All external pipe works	m	200		-
	shall be complete with fittings such as bends				
	elbows, tees, gate valve, union etc, and all				
	accessories and shall be inclusive of all builder's				
12 5 20	HDPE or other approved pipe PN16 water supply				
15.5.20	HDFE of other approved pipe FNTO water supply				
	line from government water main complete up to the	LS	1		
	water tank with all accessories, fittings.				
13.5.21	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)				
13 5 22	Water points around the compound including taps				
10.0.22	natevalves and all necessary works as approved by	No	5		_
	the Engineer	NO	5		_
	Water Lank				
13.5.23	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	15			
	mounted on stell water tank stand complete with all	20			
	mounted on stell water tank stand complete with an				
	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 v-				
	branch allow union atc				
	110mm boow, drifter DVC soil waste ning in ground to				
	1 Tomm neavy duty PVC soil waste pipe in ground to				
	manholes.				
13.5.24	50mm PVC .	m	100		-
13.5.25	110mm PVC	m	35		-
	Sanitory Fittings				-
13.5.26	Supply & fix 600x400mm ceramic hand wash basin				
	including all accessories and fittings	No	13		-
13 5 27	Supply & fix flush type coramic W/C Incuding all				
10.0.27	coopposition & fittingo	No	13		-
40.5.00	accessones & mungs				
13.5.28	white enamelled firectay 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				
13 5 29	Toilet roll holder complete with fixing to the wall	No	13		-
13 5 30	6mm glass plate mirror size 610v/75mm with			1	
10.0.00	bovelled edges complete	No	5		-
40.5.04	Devenied edges complete.				
13.5.31	omm glass plate mirror size 400x475mm with	No	4		-
	bevelled edges complete.		-		
13.5.32	Kitchen Sink double bowl single drain stainless steel		1		
	for mounting in worktop, complete with bottle trap,	No	2		-
	bib tap and all accessories.		1		
13.5.33	Chrome plated rail 600mm long, 20mm diameter		-		
	complete with fixing to the wall to approval	No	9		-
I			1	1	

13.5.34	Soap dish	No	9		-
13.5.35	Contractor's handling charge on all provisional sums	0/	10.00		
	under items 13.5.1 and 13.5.2	/0	10.00		-
Total carrie	ed to summary page		1		
13.6	ELECTRICAL WORK				
13.6.1	Supply, Install, connect, test and commission set to		4	50,000,000	50,000,000
	work the following all as described in the	P.50W	I	50,000,000	50,000,000
1362	Supply install connect test and commission Solar				
15.0.2	lighting set for the entire administration and		1	15 000 000	60 000 000
	accommodation area	1.000	-	13,000,000	00,000,000
1363	Metal cased with lockable binged door 4 - Way				
	SPN. MCB type flush mounted Consumer Unit with				
	100A DP integral Main Isolator, busbar, Neutral and	No.	6		-
	Earth Terminal Blocks, complete with ten out going				
	MCB's as per the drawing all as to L & T or equal				
13.6.4	3 core x 16mm ² PVC/SWA/PVC copper cables from				
	Meter box to the Consumer unit ofeach block, laid	m	100		_
	in ducts, complete with terminating lugs, glands and		100		-
	all fittings and accessories (Route length).				
13.6.5	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	No.	20		-
	and with all necessary work. Conduit to be used				
	should be PVC 25mm2 and conduit within the				
	celling should be flexible and the one running along				
1366	Supply and installation of 4 x 14 W T5 fluorescent				
15.0.0	lamp fitting with parabolic mirror louver	No	50		-
		110.	00		
13.6.7	Ceiling light of 40W	No.	20		-
13.6.8	Supply and Installation of switch outlet fixed on wall,				
	wired in ring circuit from the respective Consumer				
	Unit using 3 x 1.5 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				
1369	6A 1 gang 2 way moulded switch as MK or equal				
10.0.0	approved.	No.	12		-
13.6.10	6A 2 gang 2 way moulded switch as MK or				
	approved equal.	No.	15		-
13.6.11	6A 1 gang 1 way moulded switch as MK or equal	No	20		
	approved.	NO.	20		-
13.6.12	6A 2 gang 1 way moulded switch as MK or equal	No	3		-
	approved.	110.	Ű		
13.6.13	Supply and Installation of socket outlet fixed on wall,				
	wired in ring circuit from the respective Consumer				
	Unit using 3 x 2.5 mm ⁻ PVC/PVC/Cu cable as				
	snown in layout drawing with all necessary to fix the	No	75		_
	25mm2 and conduit within the coiling should be	110.	15		_
	flexible and the one running along wall should be				
	rigid type and concealed. For the following socket				
13.6.14	13A 1gang socket outlet as MK or equal complete	No	75		_
	with all accessories on walls or Trunking.	110.	13		-
13.6.15	Internet/Telephone points in 25mm PVC conduits	No.	9		-
	trom one Central point complete (Conduit wolrk		-		

r					1
13.6.16	Wiring to cooker control unit by 3 × 6 mm2 PV-CL				
	copper cables in concealed conduits complete with	No.	1		-
	cooker control unit as MK and all accessories				
13.6.17	Contractor's handling charge on all provisional sums	0/			_
	under 13.7.1 and 13.7.2	70			
Total carrie	ed to summary page				
13.7	DRYING PLATFORM (2 NO.)				
	EARTH WORK				
13.7.1	Excavation in ordinary soil and cart to spoil	m3	138.6		-
13.7.2	Excavation for strip foundation	m3	28.416		-
	CONCRETE WORK				
	Plain Concrete				
13.7.3	Provide and place well vibrated reinforced concrete	m2	1 776		
	grade C15 for strip foundation blinding (50mm thick)	1115	1.770		-
13.7.4	Provide and place well vibrated reinforced concrete	m2	7 104		
	grade C25 for strip foundation (200mm thick)	1115	7.104		-
	Reinforced concrete				
13.7.5	Provide and place well vibrated reinforced concrete		20		
	grade C25 for slab (150mm thick)	1113	30		-
	Masonry				
13.7.6	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				
13.7.7	Provide masonry anchors every two courses using	Dmt	110.0		
	galvanised mild steel ties to BS1243,1978	Rint	119.2		-
	Backfill				
13.7.8	Supply and place well compacted murram	m3	112.448		-
	Sand blinding				
13.7.9	Provide and place 50mm sand blinding	m3	9.408		-
13.7.10	1000 Gauge horizontal polythene sheeting laid with		202 509		
	450mm laps as joints	mz	203.508		-
	Reinforcement				
13.7.11	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				
13.7.12	Width 0.2m	m2	12		-
	Plaster Finishes				
13.7.13	20mm thick 1:3 Cement Sand Plaster on External	m0	10.40		
	walls (External Surfaces)	mz	40.10		-
Total carried to summary page (1NO.)					
Total carried to summary page (2NO.)					0.0