

PROPOSED SIAYA WAREHOUSE		
BILL NO 3		
<u>PRELIMINARIES</u>		
<u>PRELIMINARY PARTICULARS</u>		
A	<u>NAME OF PARTIES</u>	
	The "Employer" is :	Kenya Power & Lighting Co. Ltd P.O. Box 30099 - 00100 <u>NAIROBI</u>
	The term "Employer" and "Kenya Power" and "Kenya Power & Lighting Co. Ltd" wherever used in the contract document shall be synonymous	
	The "Project Manager" is :	The Manager, Administration & Property Kenya Power & Lighting Co. Ltd P.O. Box 30099 - 00101 <u>NAIROBI</u>
	The "Project Officer" is :	The Kenya Power Projects Officer Administration & Property Kenya Power & Lighting Co. Ltd P.O. Box 30099 - 00101 <u>NAIROBI</u>
	The "Project Quantity Surveyor" is :	The Kenya Power Quantity Surveyor, Administration & Property Kenya Power & Lighting Co. Ltd P.O. Box 30099 - 00101 <u>NAIROBI</u>
B	<u>SITE</u>	
	The site is located within Siaya County opposite Siaya law courts.	
	The Contractor shall obtain the Project Manager's approval for the siting of all temporary buildings, spoil heaps, temporary paths and storage areas for materials.	
	The Contractor shall visit the Site to acquaint himself with its nature and position, the nature of the ground, substrata and other local conditions, position of power and water supplies, access roads or any other limitations, and no claims for extras will be considered on account of lack of knowledge in this respect.	
	The Contractor must obtain the Project Manager's approval and directions regarding the use of any materials found on the site.	
C	<u>ACCESS TO SITE</u>	
	Access to site shall be as directed by the Project Manager.	
	Preliminaries	Carried to collection KShs.

Handwritten signature and date: 17/10/17

A WORKING AND STORAGE SPACE

Working and storage space will be confined to the area designated by the Project Manager within the plot boundary.

B WORKING HOURS

The Work must be carried out to cause the minimum inconvenience to the occupants of the adjoining premises. In particular, no hammering, mechanical drilling or other unduly noisy work may be commenced before 8.00 a.m. or continued after 6.00 p.m. without prior approval of the Project Manager.

C DESCRIPTION OF THE WORKS

The Works comprise construction of Go-down and septic tank

- a) Construction of go-down
- b) Superstructures reinforced concrete.
- c) Walls are generally in masonry.
- d) Finishes include , keying, plastered and painted walls and several other finishes.

Preliminaries

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KShs.

J. P. S.
17/10/17

GENERAL MATTERS

SUFFICIENCY OF TENDER

A The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of this Tender for the Works and of the rates and prices stated in the Priced Bills of Quantities, which rates and prices shall cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the Works.

STAMP CHARGES

The Contractor shall allow for the preparation & approval of final set of working drawings & Structural drawing in A1 size; using the attached drawing; size; all by a registered architect & Registered structural engineer; including all necessary county government approvals within the first two (2NO) weeks after contract signing and a further 4NO copies to be availed. Stamp Charges in connection with the Surety and Contract Agreement.

DEFINITIONS AND ABBREVIATIONS

Terms used in these Bills of Quantities shall be interpreted as follows:

"Approved" Shall mean approved by the Project Manager.

"as directed" Shall mean as directed by the Project Manager.

"B.S." Shall mean the current British Standard specifications published by the British Standards Institution, 2 Park Street, London W.1, England.

"C.M." Shall mean Cubic Metres.

"S.M." Shall mean Square Metres.

"L.M." Shall mean Linear Metres.

"MM" Shall mean Millimetres.

"Kg." Shall mean Kilogramme.

"No." Shall mean Number.

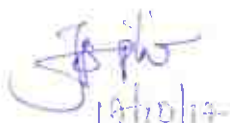
"M.S" or M/S Shall mean Measured Separately

Ditto or Do Shall mean the whole of the preceeding description except as qualified in the description in which it occurs.

Preliminaries

Carried to collection

KShs.



A PROGRESS SCHEDULE

The Contractor shall, upon receiving instructions to proceed with the Work, draw up a time and progress Schedule setting out the order in which the Works are to be carried out with the appropriate dates thereof. This Time and Progress schedule is to be agreed with the Project Manager and no deviation from the order set out in this Schedule will be permitted without the written consent of the Project Manager. The Main Contractor will be responsible for arranging the above programme with all Sub-Contractors including the Nominated Sub-Contractors and Nominated Suppliers.

B FIGURED DIMENSIONS

Figured dimensions are to be followed in preference to dimensions scaled from the Drawings; but wherever possible dimensions are to be taken on the Site or from the Buildings. Before any Work is commenced by Sub-Contractors or Specialist Firms, dimensions must be checked on the Site and/or buildings and agreed with the Contractor, irrespective of the comparable dimensions shown on the Drawings. The Contractor shall be responsible for the accuracy of such dimensions.

C PROVISIONAL WORK

All "Provisional" and other work liable to adjustment under this Contract shall be left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the Quantity Surveyor.

Immediately the work is ready for measurement, the Contractor shall give notice to the Project manager.

If the Contractor makes default in these respects he shall, if the Project Managerso directs, uncover the work at his own expense to enable the measurements to be taken.

D EXISTING SERVICES

Prior to commencement of any work the Contractor is to ascertain from the relevant Authorities the exact position, depth and level of all existing electric cables, water pipes or other services in the area and he shall make whatever provisions may be required by the Authorities concerned for the support and protection of such services. Any damage or disturbance caused to any services shall be reported immediately to the Project Manager and the relevant Authority and shall be made good to their satisfaction at the Contractor's expense.

E TRANSPORT TO AND FROM THE SITE

The Contractor shall include in his prices for the transport of materials workmen, etc., to and from the Site of the Proposed Works, at such hours and by such routes and vehicles as are permitted by the Authorities and in particular by the Transport Licensing Board

Preliminaries Carried to collection KShs.

 17/10/17

A PUBLIC AND PRIVATE ROADS, PAVEMENTS, ETC

The Contractor will be required to make good, at his own expense any damage he may cause to the present road surfaces and pavements within or beyond the boundary of the Site, during the period of the Works. In particular, all existing trees, shrubs, plants, etc., which may be destroyed or damaged during the progress of the Works are to be made good by the Contractor to the approval of the Project Manager.

B POLICE REGULATIONS

The Contractor is to allow for complying with all instructions and regulations of the police Authorities.

C ENVIRONMENTAL REGULATIONS

The Contractor shall observe all the requirements of the National Environment Management Authority (NEMA)

In particular the Contractor shall give special emphasis to control dust. The Contractor shall provide all necessary dust screens to prevent dust from the construction works affecting neighbouring property. The dust screens shall be approved by the Project Manager and be acceptable to NEMA officials. The Contractor shall also control dust on site by appropriate watering of the sources of dust.

The Contractor shall put emphasis on controlling noise, vibrations and occupational hazards. The provisions of the Occupational Safety and Health Act No. 15 of 2007 must be strictly observed.

D CONTRACTORS' SUPERINTENDENCE

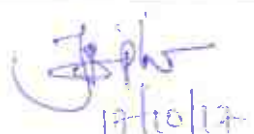
The Contractor shall constantly keep on the Works a literate English-speaking Agent or Representative, competent and experienced in the kind of work involved, who shall give his whole time to the superintendence of the Works. Such Agent or Representative shall receive on behalf of the Contractor, directions and instructions from the Project Manager and such directions and instructions shall be deemed given to the Contractor in accordance with the conditions of the Contract. The Agent shall not be replaced without the specific approval of the Project Manager.

It is to be a specific condition of this Contract that the successful Tenderer shall provide on Site throughout the period of construction until the Date for Practical completion a suitably qualified, experienced and competent person to ensure that the works are carried out to the standard required by the specification and detailed on the Drawings; and shall ensure that upon any termination of employment a suitable replacement is found.

Preliminaries

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CONTRACTORS' SUPERINTENDENCE -(CONTINUED)

Before the Tenderer's offer is accepted the Project Manager may personally interview the Contractor's proposed Representative.

A curriculum vitae of past experience and qualifications must be provided for the Project Manager's scrutiny.

The Project Manager's decision will be final regarding the suitability of the proposed Representative.

A WATER

All water shall be fresh, clean and pure, free from earthy, vegetable or organic mater, acid or alkaline substances in solution or suspension

The Contractor shall provide at his own risk and cost all water for use in connection with the Works (including the work of Sub-Contractors). The Contractor shall provide at his own expense all temporary distribution pipes, storage tanks, metres, etc., and he shall clear away same upon completion of the Works.

B LIGHTING AND POWER

The Contractor shall provide at his own risk and cost all artificial lighting and power for use on the Works, including all Sub-Contractors' and Specialists' requirements and including all temporary connections, wiring, fittings, etc., and clearing away on completion. The Contractor shall pay all fees and obtain all permits in connection therewith.

C SAFETY

The Contractor shall comply at all times with the requirements of the Factory Act (Cap 514), Building Construction Rules, Supplement 18, Legal Notice No.40 dated April, 1984 and ensure that the safety of his workpeople and authorised visitors to the Site is protected at all times. In particular there shall be proper provision of planked footways and guard-rails to scaffolding, etc., protection against falling materials and tools and the Site shall be tidy and clear of dangerous rubbish.

The Contractor shall appoint a safety officer as required by the Factory Act and notify the Factory Inspector of his name. the safety Officer shall be on Site at all times and all directions given by the Project Manager to the Safety Officershall be deemed to be Project Manager's Instructions, and shall be complied with promptly without additional cost to the contract.

The Project Manager shall be empowered to suspend work on the Site should he consider these conditions are not being observed, and no claim arising from such suspension will be allowed.

Preliminaries

Carried to collection

KShs.

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19/10/17

A PROTECTIVE CLOTHING

The Contractor shall provide all protective or any other special clothing or equipment for his employees that may be necessary. This shall include, inter-alia, safety helmets, gloves, goggles, earmuffs, gumboots, overalls, etc., according to the type of work. The Contractor shall ensure that safety helmets are worn by all staff at all times.

B PROVISIONAL SUMS

The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A Item A6(i) of the Standard Method of measurements

Such sums are net and no addition shall be made to them for profit.

C ADJUSTMENT OF PROVISIONAL SUMS

In the final account all provisional sums shall be deducted and the value of the work properly executed in respect of them upon the Project Manager's order added to the contract sum. Such work shall be valued as described for variations in condition No. 30 of the conditions of contract, but should any articles for the work be executed by a Nominated Sub-Contractor, or any articles for the work be supplied by a Nominated Supplier, the Value of such work or articles shall be treated as a P.C. sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.

D PRIME COST (OR P.C.) SUMS

The term "Prime Cost Sum" or "P.C. Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A67(ii) of the Standard Method of Measurements

Persons or firms Nominated to execute the work or to provide and fix materials or goods as stated in the Conditions of Contract are described herein as Nominated Sub-Contractors. Persons or firms so nominated to supply goods or materials are described as Nominated suppliers.

E ADJUSTMENT OF P.C. SUMS

In the final account all P.C. sums shall be deducted and the amount properly expended upon the Project Manager's order in respect of each of them added to the contract sum. The Contractor shall produce to the Project Manager such quotation, invoices or bills properly receipted as may be necessary to show the actual details of the sums paid by the contractor.

Items of profit upon P.C. sums shall be adjusted in the final account prorata to the amount paid.

Items of Attendance following P.C. Sums shall be adjusted prorata to the physical extent of the work executed (not prorata to the amount paid) and this shall apply though the Contractor's Bills shows a percentage in the rate column in respect of them.

Should the Contractor be permitted to tender and his tender be accepted for any work which a P.C. sum is included in these Bills of Quantities, profit and attendance will be allowed at the same rate as it would if the work were executed by a Nominated Sub-Contractor.

Preliminaries Carried to collection. KShs.

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MATERIALS AND WORKMANSHIP

A GENERALLY

All materials shall be new unless otherwise directed or permitted by the Project Manager and in all cases where the quality of goods or materials is not described or otherwise specified, is to be the best quality obtainable in the ordinary meaning of the word "best" and not merely a trade signification of that word.

All materials and workmanship shall, unless otherwise specified or described, conform to the appropriate British Standard Institution specification current at the date of tender.

The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that such materials are on Site when required for use in the Works.

The Contractor shall be responsible for and shall replace or make good at his own expense any materials lost or damaged.

The Works throughout shall be executed by skilled workmen well versed in their respective trades.

B REJECTED WORKMANSHIP OR MATERIALS

Any workmanship or materials not complying with the specific requirements or approved samples or which have been damaged, contaminated or have deteriorated, must immediately be removed from the Site and replaced at the Contractor's expense, as required.

C PROPRIETARY MATERIALS

Where proprietary materials are specified herein-after the contractor may propose the use of materials of other manufacture but equal quality for approval by the Project Manager.

All materials and goods, where specified to be obtained from a particular manufacturer or supplier are to be used or fixed strictly in accordance with their instructions.

Preliminaries

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KShs.

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A SAMPLES

The Contractor shall furnish within the first two weeks of site take over and before work commences and at his own cost, any samples of materials or workmanship that may be called for by the Project Manager for his approval or rejection, and any further samples in case of rejection until such samples are approved by the Project Manager and such samples, when approved, shall be the minimum standard for the work to which they apply. Such approved samples shall be mounted on a sample board erected on site. The sample board shall be of minimum size 2400x1200mm high fabricated in RHS supports & framings minimum size 75x50x3mm secure from tampering with and including all necessary sample mounting bases & roof cover where required and available for quick reference during the entire period of the contract. The approved samples shall be mounted / applied using the correct methodology, edging and finish as per the bill of quantities; all to reflect the high quality workmanship that will be replicated on the permanent works.

B CONCRETE TESTS

Concrete test cubes, will not be required under these works; any concrete works must be done in the presence of the Project Manager or his/her representative

C OTHER MATERIAL TESTS

The Contractor shall allow for providing samples of all other materials such as reinforcement bars, building sand, cement, building stone, concrete blocks, hardcore, etc, that may be requested by the Project Manager or Engineer for testing. He shall allow for the delivery of the same to the testing Laboratory (ies)), pay the testing fees and any other costs that may be required and arrange for test certificates to be sent directly to the Project Manager or Engineer by the testing Laboratory. Under no circumstances will the Contractor be paid for such tests if he does not allow for that here

Preliminaries

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KShs.

J.P.
17/10/17

TEMPORARY WORKS

A OFFICE AND SHEDS

The Contractor shall erect and maintain temporary office accommodation for his own use, and ample temporary watertight sheds for the proper storage and protection of materials and for the use of artisans and remove when ordered. Floors of sheds shall be at least 150mm above ground level.

B SANITATION

The Contractor shall provide the necessary latrines for his staff and workmen to the requirements and satisfaction of the Health Authorities and maintain the same in a thoroughly clean and sanitary condition and pay all conservancy fees during the period of the Works and remove when no longer required.

Preliminaries

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KShs.

J.P.W.
17/10/17

A PLANT, TOOLS AND SCAFFOLDING

The Contractor shall provide all necessary hoists, tackle, plant, vehicles, tools and appliances of every description for the due and satisfactory completion of the Works and shall remove same on completion.

The Contractor shall provide, erect and maintain all temporary scaffolding, sufficiently strong and efficient for the due performance of the Works, including Sub-Contract works, provide special scaffolding as and when required during the Works and remove on completion and make good.

Such scaffolding shall be constructed of tubular steel or timber of sufficient scantlings and be provided with planked footways and guard-rails to approval.

All such plant, tools and scaffolding shall comply with all regulations whether general or local, in force throughout the period of the contract and shall be altered or adapted during the Contract as may be necessary to comply with any amendments in or additions to such regulations.

Scaffolding is not measured hereinafter, and the Contractor must allow here or in his rates for the above.

B EXISTING AND ADJACENT PROPERTY

The Contractor must take all steps necessary to safeguard existing and adjacent property, make good at his own expense any damage to persons or property caused thereon, and hold the Employer indemnified against any such claim arising.

The Contractor will be held fully responsible for the safety of the existing and adjacent buildings and for any damage caused in consequence of these Works. He must reinstate all damage at his own expense and indemnify the Employer against any loss.

The Contractor must take such steps and exercise such care and diligence as to minimise nuisance from dust, noise or any other cause to the occupiers of the existing and adjacent property.

C LABOUR CAMPS

No labour, with the exception of watchmen may be housed on the site and the Contractor shall allow for all transport and other charges in moving labour to and from site at such hours and by such routes as are permitted by the Authorities. The Contractor shall provide, erect and maintain satisfactory housing for the watchmen and shall remove same on completion of the works.

Preliminaries

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KShs.

J.P.S.
12/10/17

A HOARDING

The Contractor shall enclose the Site with a hoarding 2.40 metres high, with openings and gates as required, constructed of substantial timbers to approval and covered with new Galvanised iron corrugated sheeting painted to approval.

B WATCHING AND LIGHTING

The Contractor shall provide at his own risk and cost all watching and lighting as necessary to safeguard the Works, plant and materials against damage and theft.

C TEMPORARY ROADS

The Contractor shall provide where directed all temporary access roads, tracks and paths necessary for the execution of the Works, including making good when no longer in use.

D SIGNBOARD

The Signboard and lettering on same for the display of the General and Sub-Contractor's names shall be of an approved size with the Employer's name painted thereon. The Project Manager's name shall be printed in letters not exceeding 100mm in height all to the Project Manager's design. No other signboard or advertising will be permitted.

NOMINATED SUB-CONTRACTORS AND SUPPLIERS

E NOMINATED SUB-CONTRACTORS


The Contractor shall be responsible for Nominated Sub-Contractors in every respect and in particular it shall be the Contractor's responsibility to ensure that each Sub-Contractor commences and completes the work in such manner and is ready on the Site with his materials, labour and special plant at such times so as to conform with the progress Schedule, as specified previously, and so ensure satisfactory progress.

The Contractor shall also accept liability for and bear the cost of General Attendance on Nominated Sub-Contractors which shall be deemed to include for:

Preliminaries

Carried to collection

KShs.

Handwritten signature and date: 17/10/17

A NOMINATED SUB-CONTRACTORS - CONTINUED

Allowing the use of standing scaffolding, maintenance and alteration of all scaffolding, retention of all scaffolding until such time as all relevant Sub-Contractors' works are complete and removal of all scaffolding on completion. Providing space for office accommodation, and for storage of plant and materials; allowing use of sanitary accommodation; the supply of all necessary water, and lighting; and clearing away all rubbish.

The items for "General Attendance" given herein-after following P.C. Sums in respect of Sub-Contractors' work shall be deemed to include all the above.

The Contractor shall also accept liability for and bear the cost of Special Attendance on Nominated Sub-Contractors which shall include for one or more of the following:

Unloading, storing, hoisting, placing in position, providing power, provision of special scaffolding.

The items of "Special Attendance" given herein-after following P.C. Sums shall include any one or more of the above items as set out in the particular reference.

Cutting away for and making good after the work of Sub-Contractors as may be required will be measured and valued separately by the Surveyor.

B NOMINATED SUPPLIERS

The cost of "Fix only" materials to be obtained from Nominated Suppliers which are covered by prime Cost or Provisional Sums shall include for taking delivery where directed, checking with invoices or indents, reporting and claiming damages for shortages and damaged goods, defraying demurrage signing for as having been received in good order, transporting, unloading, storing, covering and protecting until the time of fixing, unpacking, replacing anything lost or damaged, sorting, assembling, hoisting to required levels and fixing as described.

Before placing any orders with Nominated Sub-Contractors or Nominated Suppliers the Contractors must ascertain that the terms and conditions of the quotations and the dates of delivery of materials or execution of works comply with the terms of Contract and the Progress Schedule.

C PRIME COST RATES

Where description of items include a P.C. rate per unit this rate is to cover the nett supply of the unit only. The Contractor's price must include for the cost of the unit at the rate stated, plus waste, taking delivery, storage, fixing in position, profit and overheads.

The actual nett cost per unit will be adjusted within the Final Account against the P.C. rate stated.

Preliminaries

Carried to collection

KShs.

J. P. W.
17/10/17

A PROTECTION

The Contractor shall cover up and protect from damage, including damage inclement weather, all finished work and unfixed materials, including that of from Sub-Contractors, etc., to the satisfaction of the Project Manager until the completion of the Contract, and carefully preserve all trees or bushes on or near the Site.

B CLEANING

The Contractor shall, upon completing of the Works, at his own expense, remove and clear away all surplus excavated materials, plant, rubbish and unused materials and shall leave the whole of the Site and Works in a clean and tidy state to the satisfaction of the Project Manager, including clearing away and making good all traces of temporary access roads, offices, sheds camps, etc. Particular care shall be taken to leave clean all floors and windows and to remove all rubbish and dirt as it accumulates. The Contractor is to find his own dump and shall pay all charges in connection therewith.

C TRAINING LEVY

The Contractor's attention is drawn to legal Notice No. 237 of October, 1971, which requires payment by the Contractor of Training Levy on all Contracts of more that 50,000/- in value and his Tender must include for all costs arising therefrom.

E NATIONAL CONSTRUCTION AUTHORITY REQUIREMENTS (NCA)

The contractor shall allow for all necessary compliance with the NCA requirements

E DEVELOPMENT APPROVALS

The contractor shall allow for all necessary county government permits & approvals with regard to these works. No claim for failure to comply with county Allow for all necessary permits/approvals by the County Government

D VALUE ADDED TAX

The Contractor's attention is drawn to the Finance Act 1993 and subsequent ammendments thereof which requires payment by the Contractor of Value Added Tax (VAT) on construction services rendered.

The Tenderer shall include for all costs arising or resulting therefrom in his rates. A lumpsum addition will not be acceptable.

Preliminaries Carried to collection KShs.

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17/10/17

COLLECTION

Preliminaries

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BILLNO.1
PRELIMINARIES

TO GRAND SUMMARY

KSHS.

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12/10/17

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	BILL NO. 1 <u>PROPOSED SIAYA WAREHOUSE.</u>				
	<u>ELEMENT NO. 1</u>				
	<u>Site clearance</u>				
A	Clear the site off grass, shrubs and all vegetation; cart away as directed	330	SM		
	<u>Excavation</u>				
	<u>Over-site excavations: 100-200mm Depth, load and deposit as instructed by the project manager</u>				
B	Reducing levels; 200 mm	330	SM		
C	Excavate for strip footing trenches n.e. 1.5 m deep	119	CM		
D	Ditto but column pits size 1200x1200 n.e. 1.5m deep	42	CM		
E	Extra-over all excavation for excavating rock irrespective of class.	72	CM		
F	Level bottom of foundations to receive blinding	39	SM		
G	Return, fill-in and rum selected imported materials around foundations	113	CM		
H	<u>Remove and cart away surplus excavated materials.</u>	48	CM		
	<u>Diposal of water</u>				
J	Keeping all excavations free from all water including spring or running water	1	ITEM		
	<u>Planking and strutting</u>				
K	Uphold the sides of all excavations	1	ITEM		
	<u>Filling</u>				
L	Hardcore filling in making up levels, hand packed, 300mm thick in layers of 150mm maximum thickness	91	CM		
M	25mm (average) thick quarry dust blinding to surfaces of hardcore	303	SM		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	<u>Antitermite treatment</u> Premise 200 SC' or other equal and approved anti-termite insecticide treatment with ten years guarantee, applied strictly in accordance with manufacturer's instructions, to tops of fill and foundation walls	303	SM		
	<u>Concrete</u> <u>Insitu concrete; reinforced; class 20 / (20mm); vibrated</u>				
B	Strip footing	14	CM		
C	Columns bases	13	CM		
D	150mm thick bed	303	SM		
	<u>Reinforcement</u> <u>Ribbed bars; high yield steel; cold worked to KS 573:2014; and hot rolled; including bends, hooks, tying wire and distance blocks</u>				
E	In assorted reinforcement of various sizes	1120	KG		
	<u>Fabric; B.S. 4483</u>				
F	Reference A142 mesh 200 x 200 mm , weight 2.22 kgs per square meter (measured net - no allowance made for laps(including bends, tying wire and distance blocks	303	SM		
	<u>Walling</u>				
G	200 mm thick natural stone foundation walling bedded in c/s mortar	187	SM		
	<u>Sawn formwork to insitu concrete as described:-</u>				
H	To sides; vertical or battering of foundations or the like	158	SM		
J	Edges of ground floor slab; 75 to 150mm wide	70	LM		
	<u>Damp proofing</u>				
K	Polythene sheet; 500 gauge, 200mm weltd laps (no allowance made to laps), horizontal; 1 no. layer laid on compacted quarry dust blinding	303	SM		
L	200mm wide; B.S. 743 Type A bitumen hessian base 150 mm laps (no allowance made for laps); horizontal, 1 no. layer, bedded in cement sand (1:3) mortar	125	LM		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	<p><u>In situ Finishings</u></p> <p>14mm thick 2 No. coatwork cement sand (1:3) render; wood floated to concrete or blockwork base to walls;</p> <p><u>Painting and Decorations</u></p> <p><u>Prepare and apply three coats bituminous paint to:</u></p>	21	SM		
B	Wood floated rendered plinths over 300mm girth	21	SM		
	<i>Carried to Collection</i>				
	<p><u>COLLECTION</u></p> <p>From page BW/1</p> <p>From page BW/2</p> <p>From page above</p>				
	TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 2</u>				
	<u>RC SUPERSTRUCTURE</u>				
	<u>In situ concrete; reinforced; class 20 / (20mm); vibrated</u>				
A	Beams	28	CM		
B	Vertical columns	5	CM		
	<u>Reinforcement (Provisional)</u>				
	<u>Ribbed bars; high yield steel; cold worked to KS 573:2014; and hot rolled; including bends, hooks, tying wire and distance blocks</u>				
C	In assorted reinforcement of various sizes	3648	KG		
	<u>Sawn formwork to insitu concrete as described:-</u>				
D	To sides and soffits of ring beam	90	SM		
E	Columns	78	SM		
	TOTAL FOR RC SUPERSTRUCTURE CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 3</u>				
	<u>WALLING</u>				
A	WINDOW CILL; 250 x 50 mm extreme height; once weathered; once throated; reinforced as necessary for handling; surface fair finish 275 mm girth; bedding, jointing and pointing in cement sand (1:3) mortar	36	LM		
	<u>NATURAL STONE WALLING</u>				
B	200 mm thick approved local; chisel dressed both sides; bedding, jointing and pointing in cement sand (1:3)	414	SM		
C	Extra over recessed horizontal and flush vertical keying & pointing in 10mm thick rod in cement and sand (1:3) mortar; one coat of bituminous paint.	414	SM		
	TOTAL FOR WALLING CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
<u>ROOF CONSTRUCTION, COVERING AND RAIN WATER GOODS; ALL PROVISIONAL</u>					
<u>Prepainted IT5 box profile: 28 gauge.</u>					
A	Roof covering; 150mm laps on one end and one and a half corrugation side lap; and bolted to 75x50x2mm Z-purlins (m/s) on 100x75 rafters (m/s) at appropriate centers; all laid to fall at 22.5 ⁰	374	SM		
<u>Accessories, fixing as necessary to roof sheets</u>					
B	150mm dia. Half round ridge sheet	36	LM		
<u>The following in portal trusses spanning 12500mm and hoisted 6000mm high from the ground floor level.</u>					
C	100 x50x4mm 8.92kg/m Rafters.	1370	KG		
D	75x50x2mm - Z purlins bolted to rafters	86	LM		
E	100x100x4mm purlin cleats welded to rafters	48	NO		
F	Allow for 400x100x4mm rafter cleats bolted to UC	86	NO		
G	Drill holes for 12mm diameter bolts in purlins cleats, fish plates and rafter cleats.	168	NO		
H	Diameter 12x35mm long bolts complete with nuts and washers.	144	NO		
J	Allow for 240x100x2mm fish plates	37	NO		
K	50x50x4mm angle bracing	82	LM		
L	200x200x3mm gusset plates	11	NO		
M	Diameter 12x1700mm long sag rods with 75mm alternation complete with nuts and washers.	17	NO		
N	300mm wide x 2mm thick mild steel plate	17	SM		
M	Eaves boarding; approved chip board or any other equal and approved ceiling board secret fixed to and including 50 x 50mm celcured wrot cypress bearers or brandering at 600mm centres	36	SM		
Subtotal carried to summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Labour and material (Provisional)</u>				
A	12mm diameter rag bolt, 200mm long complete with and including head, nut and two washers; cast into and including mortice in stone or concrete and run with cement and sand (1:3) mortar	913	NO		
B	Drill 50mm thick timber to receive 12mm dia. Bolt (m/s)	913	NO		
	<u>RAINWATER DISPOSAL</u>				
	<u>24g Galvanised mild steel sheeting; all welds ground smooth</u>				
C	100 x 75mm box gutter including soldered joints in the running length fixed to fascia board with and including brackets at approved centers	202	LM		
D	Extra; for blocked ends with 75mm dia.outlet 100mm long	8	No		
E	75mm dia. rainwater downpipe fixed with and including mild steel straps at 900mm centres, plugged and screwed to wall	48	LM		
F	Extra; swanneck bend with 1135mm projection	8	NO		
G	Extra; horse shoe bend	8	NO		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Painting and Decorations</u>				
	<u>On Woodwork</u>				
	<u>Prepare and apply one zinc plumbate primer and three coats of 'CROWN SOLO' or other equal and approved super gloss oil paint to:-</u>				
A	Fascias and barge boards; 200 to 300mm girth; external	102	LM		
	<u>On Metal work</u>				
B	General surfaces; over 300mm girth external	55	SM		
C	Small pipes; external	48	LM		
	<u>Turbine Roof Ventilator</u>				
D	Supply and fix metallic galvanised air removing cyclone capacity at 15Km/h wind speed, with 2 sealed bearing in housing comprising of 20blades with a dome height of 270mm and width 430mm to a total mass n.e 6.3kg	6	NO		
E	Lightning arrestors to include 2 NO. spikes complete with the base plate, copper tape and earthing rods as necessary including fixing the spikes at 10M high above the ground level	1	NO		
	Total carried to collection				
	<u>COLLECTION</u>				
	From page BW/6				
	From page BW/7				
	From page Above				
	TOTAL FOR ROOFING CONSTRUCTION, COVERING AND RAIN WATER				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 5</u>				
	<u>DOORS</u>				
	<u>METAL WORK - PURPOSE - MADE UNITS</u>				
	<u>Mild steel casement doors: 100 x 50 x 3mm thick frame plugged to concrete or blockwork with 100mm long fishtailed 25 x 25 x 2mm thick angle section, 50 x 50 x 3mm thick angle section frames at 300mm centres both sides, angles cut, mitred and welded; panels infilled with glazing (m/s), one coat manufacturer's primer, complete with all necessary ironmongery and paintworks; all welding ground to smooth finish</u>				
A	Double door; 3000 x 3000mm high, complete; including 6 pairs 150mm long purpose made hinges.	3	NO		
B	Ditto; 2400 x 3000mm high; ditto	2	NO		
C	Ditto; 2000 x 3000mm high; ditto	1	NO		
D	Ditto but size 1500x2400mm high ditto	1	NO		
E	45mm thick semi solid flush door size 900x2100mm high complete with door frame complete with all necessary quadrant moulds, 4 labor and aluminum kick	12	NO		
	TOTAL FOR DOORS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 6</u> <u>WINDOWS</u>				
	<u>Bull-nosed burnt clay, finishing fair on all exposed surfaces and hoisting and placing in position, bedding, jointing and pointing in pigmented cement</u>				
A	150x25mm thick clay window sill	36	LM		
	<u>Wrot Cypress</u>				
B	150 x 25 mm thick window boards including bull-nosed edges and 25 x 25 mm bearer; plugged, counter sinking and flush pelleting.	18	LM		
	<u>Pole post</u>				
C	Comprising of 25mm diameter pole post complete with curtain track, plugged on masonry wall with brass plated screws complete with accessories.	18	LM		
	<u>METAL WORK</u> <u>PURPOSE - MADE UNITS</u>				
	<u>Supply, assemble and fix the following purpose-made mild steel casement windows; standard metal section from approved manufacturer complete with frames, transomes, mullions and with and including permanent ventilators comprising "T" bar, gauze and 16 gauge sheet metal hood 50mm high x 50mm projection to full width of window, coupling mullions, approved ironmongery and one coat manufacturer's primer; all welding ground to smooth finish</u>				
	<i>Steel; for glazing with putty, lugs to two jambs, cutting and pinning to concrete or blockwork, fixing to head and sill with screws; plugging</i>				
D	Window, overall size 2500 x 3000mm high with 2 No. openable light size 400 x 1200 mm high.	5	NO		
E	Ditto but size 1000x2000mm high ditto	1	NO		
F	Ditto but size 1000x1500mm high ditto	2	NO		
G	Ditto but size 600x600mm high ditto	5	NO		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Metal work cont'd</u>				
	<u>Grills</u>				
	<u>High tensile steel burglar proof bars at 300mm cross centres horizontal and vertical; ends lugged in masonry. (Provide rate only)</u>				
A	25x6mm flats welded and ground smooth to approval.	64	SM		
	<u>Glazing</u>				
B	4mm Thick clear sheet glass panes over 0.1 but not exceeding 0.5 square meters; fixing with putty	42	SM		
	<u>Painting and Decorations</u>				
	<u>On Metal work</u>				
	<u>Prepare and apply three coats oil paint full gloss to Crown Solo or other equal and approved to: -</u>				
C	General window surfaces; over 300mm girth internal	64	sm		
D	General window surfaces; over 300mm girth external	64	sm		
E	Surfaces of metal over 300mm girth (burglar proofing)	128	sm		
	<u>On wood</u>				
	<u>Aluminium primer or other equal and approved wood primer before fixing: -</u>				
F	Backs of frame, board, etc over 200mm but not exceeding 300mm girth	18	lm		
	<u>Prepare and apply three coats polyurethane clear varnish on woodwork internally</u>				
G	Frames; 200 to 300mm girth	18	lm		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>COLLECTION</u>				
	From page BW / 10				
	From page BW / 11				
	TOTAL FOR WINDOWS CARRIED TO SUMMARY				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 7</u>				
	<u>FINISHES</u>				
	<u>Wall finishes</u>				
	<u>Insitu finishes</u>				
	<u>Render; 15mm thick, 1 No. coatwork of cement and sand (1:3); wood floated to concrete or blockwork base generally to: -</u>				
A	Beams and walls; external	110	SM		
	<u>Plaster; 18mm thick, 2 No. coatwork, 15mm first coat of cement sand (1:3); 3mm second coat of cement and lime putty (1:9); steel trowelled to concrete or blockwork base generally to: -</u>				
B	Walls, beams; internal	337	SM		
C	White glazed wall tiles size 250x300mm jointed with approved tile adhesive.	102	SM		
D	Ceramic recessed toilet roll holder	4	NO		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Floor finishes</u>				
	<u>Terrazo flooring</u>				
A	25mm thick coloured terrazzo floor finish dividing strips in bays not exceeding 2.25SM on floor screed backing (MS)	271	SM		
B	Ditto in 100mm high terrazzo skirting.	136	SM		
C	8mm thick ceramic floor tiles none slip fixed with an approved tile adhesive.	32	SM		
D	15mm thick c/s backing to recive terrazzo finish (m/s)	239	SM		
E	32mm thick c/s backing to recive ceramic floor tiles (m/s)	32	SM		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	From page BW / 13				
	From page BW / 14				
	TOTAL FOR FINISHES CARRIED TO SUMMARY				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	ELEMENT NO. 8				
	INTERNAL PLUMBING				
	<u>Supply, deliver and install PPR tubing including fixing and jointing. Tenderer must allow in their pipework prices for all couplings, connectors, unions, joints e.t.c as required in the running lengths of the pipework and also where necessary, for pipe fixing clips, holderbats plugged and screwed and pipe sleeves through structural members.</u>				
A	15mm diameter PPR tubing	36	LM		
B	Ditto but 20mm ditto	12	LM		
C	Ditto but 25mm ditto	4	LM		
	<u>UPVC pipe</u>				
D	100mm diameter UPVC pipe	64	LM		
E	Ditto but bend ditto	4	NO		
	<u>Extra-over PPR tubing for the following:-</u>				
F	15mm diameter bend	10	NO		
G	Ditto but 20mm ditto	2	NO		
H	Ditto but 25mm ditto	3	NO		
J	15mm diameter equal tee	5	NO		
K	Ditto but 25mm ditto	1	NO		
L	20x15mm diameter un-equal Tee	1	NO		
M	Ditto but 25x20mm ditto	1	NO		
N	Ditto but 25x15mm ditto	1	NO		
P	15mm diameter union	2	NO		
Q	Ditto but 20mm ditto	2	NO		
R	Ditto but 25mm ditto	2	NO		
	<u>Gate valve</u>				
S	15mm diameter approved high pressure screw-down fullway non-rising gatevalve to B.S 5154 series B rating with wheel head and joints to PPR tubing as peggler England.	2	NO		
	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	INTERNAL PLUMBING (CNT'D)				
	<u>PVC tubing</u>				
A	15mm diameter tubing approximately 300mm long flex tube as required and including backnuts and jointing to PPR tubing.	6	NO		
	<u>Water storage</u>				
B	Rotationally moulded polyethelyne tank tested to BS 2782 method of testing plastics; of nominal capacity 910litres (200 Gal) of diameter 1090x1060mm high as manufactured by "KENTAINERS LTD" loft tank cylindrical vertical closed end tank with lid model NO. 93c complete with inlet, outlet and overflow connections as necessary.	1	NO		
	<u>Ball valve</u>				
C	19mm diameter high pressure cast brass ball valve MOH pattern with 32mm diameter (1 1/4") shank as Ref NO. 700	1	NO		
	<u>Ball float</u>				
D	Bricon 4 _{1/2} " diameter high pressure polyethelene plastic float as Ref NO. 753T	1	NO		
	<u>Sterilization</u>				
E	Allow for setting to work, testing and commissioning	1	ITEM		
	<u>SANITARY FIXTURES</u>				
	<u>Supply and fix the following including all materials and jointing to supply, waste soil and inflow pipes, supports e.t.c</u>				
	<u>Water closet</u>				
F	Asian type ceramic water closet suite complete with ceramic high level cistern, flush pipecomprising squatting pan, ceramic cistern, with valve fittings including siphon, side overflow, inlet connection, ball valve and reversible chrome plated flushing lever.	4	NO		
	<u>Wash hand basin - Wall mounted</u>				
G	White viterous china wall mounted "Classic 560" size 560x405mm basin with one tap front, overflow, chain stay hole and concealed screws holes complete with accessories.	2	NO		
	<u>Urinal - Bowl</u>				
H	Twyford clifon urinal range of 2 consisting of, pipework for range of 2, urinal bowl, Twyford dome shape waste, twyford urinal dividers.	1	NO		
	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>SANITARY FIXTURES (CONT'D)</u>				
	<u>Toilet Roll holder</u>				
A	White vitreous china build-in toilet roll holder 150x150mm as Twyford bathrooms Ltd Ref: No. VC 9336 WH	4	NO		
	<u>Soap Dispensors</u>				
B	Chrome plated screwed to wall liquid dispenser size 112x116x140mm aand capacity of 0.3775 litres as Twyfords Bathrooms Ltd. Ref: No. PB 0306 CP	2	NO		
	<u>SHOWER'S AND BATHROOMS</u>				
C	Brricon heavy pattern built-in shower cubicle set comprising of:-	2	NO		
	<u>Excavation</u>				
D	Excavate trench from ground level for burried drain pipes not exceeding 1000mm and average 450mm deep, part return, fill in, ram and remainder cart away.	56	LM		
	<u>Galley trap</u>				
E	Allow for a masonry gulley trap of size 300x300x450mm deep with the necessary seal, drains	5	NO		
	<u>Storage water tank & Steel deck</u>				
F	Supply and install 5,000 litres capacity polyethylene moulded water storage tank as KENTANK No. CCV 50" or similar approved complete with 20mm diameter inlet and outlet connections,25mm diameterx3000mm long (approx.) overflow and wash-out pipes and connections and all requisite fittings on and including 1500x1500x150mm thick screeded concrete 1:3:6 base slab with BRC reinforcement cast 300mm high above ground level on 600mm thick blinded hardcore filling in 200mm thick x1000mm high (minimum) masonry walling on 600 X 200mm thick concrete 1:3:6 strip footing, including all necessary excavations, disposal, backfilling & formwork.	1	NO		
G	Supply and install 0.5 h.p. booster pump allowing for all plumbing and electrical connections to facilitate boosting of water to the hoisted tank apprx. 5M above the ground level.	1	NO		
H	Supply and install float switches to both ground and hoisted tank to control water flow allowing for all electrical wiring.	2	NO		
	Total carried to collection				
	From page BW/16				
	From page BW/17				
	From page above				
	Total carried to collection				



ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	Electrical works				
A	Supply and fix 60W LED fitting complete as lighting points installation with 1.5mm ² diameter encased in 20mm diameter conduit and wiring.	10	NO		
B	Six way distribution board to receive,6A,15A and 32Amps breakers with earthing as Havells (MS).	1	NO		
	6 Amps MCB	3	NO		
	Ditto but 15 Amps	4	NO		
	Ditto but 32 Amps	3	NO		
C	Double industrial sockets (15Amps) fixed with 2.5mm ² diameter encases in 25mm diameter conduit.	8	NO		
D	Switches (Industrials)				
	a) one gang one way	5	NO		
	b) One gang two way	2	NO		
	f)Three gang two way	5	NO		
E	Flood light LED 50W fitting complete as security lihts insulation with 1,5mm ² diameter encased in 20mm diameter conduit and wiring	6	NO		
F	Three phase meter box (Single) mounted on masonry	1	NO		
G	16mm ² assorted single core cable (Red, Black)	50	LM		
H	16mm ² diameter earth lead (Single)	25	LM		
J	12mm x 2.5m long earthrod driven on ground.	1	NO		
K	2.5mm ² single core cable Red	200	LM		
L	Ditto but Black	200	LM		
M	Ditto but green	200	LM		
K	1.5mm ² single core cable Red	600	LM		
L	Ditto but Black	300	LM		
M	Ditto but green	300	LM		
N	38mm diameter PVC conduits (Metro)	6	NO		
P	Ditto but 20mm ditto	60	NO		
	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
ELE NO	TITLE			PAGE NO.	KSHS.
1	SUBSTRUCTURE (ALL PROVISIONAL)			BW / 3	
2	RC SUPERSTRUCTURE			BW / 4	
3	WALLING			BW / 5	
4	ROOF CONSTRUCTION			BW / 8	
5	DOORS			BW / 9	
6	WINDOWS			BW / 12	
7	FINISHES			BW / 15	
8	INTERNAL PLUMBING WORKS			BW / 18	
9	ELECTRICAL WORKS			BW / 19	
TOTAL FOR PROPOSED CENTRAL RECORDS ARCHIVES CARRIED TO GRAND SUMMARY					



ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>50 PERSONS CAPACITY SEPTIC TANK- BILL NO. 2</u> <u>ELEMENT NO. 1</u> <u>Sub-structure - All provisional</u>				
	<u>Site clearance</u>				
A	Excavate pits commencing from ground level but not exceeding 1.5M deep	12	SM		
	<u>Excavation</u> <u>Over-site excavations: 100-200mm Depth, load and cart away from site/deposit as instructed by the project manager</u>				
B	Reducing levels; 200 mm	3	CM		
C	Excavate pits commencing from ground level but not exceeding 1.50M deep or strip footing trenches n.e. 1.5 m deep	18	CM		
D	Ditto but exceeding 1.5M deep but not exceeding 3.0M deep	18	CM		
E	Ditto column pits 0-0.15mm deep	8	CM		
F	Extra over excavation at any depth for excavation in rocks for all class of rocks.	5	CM		
G	Load cartaway surplus excavated materials away from the site and dispose to areas designated by the local government and NEMA	30	CM		
H	Return, fill and ram selected materials around structural wall and manhole and ram.	30	CM		
J	<u>Item</u> Keeping all excavations free from all water including spring or running water		ITEM		
K	<u>Planking and strutting</u> Uphold the sides of all excavations		ITEM		
L	<u>Filling</u> Hardcore filling in making up levels, hand packed, 300mm thick in layers of 150mm maximum thickness septic tank.	4	CM		
M	25mm (average) thick quarry dust blinding to surfaces of hardcore	12	SM		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Concrete</u>				
	<u>Mass concrete class P as described</u>				
A	Plain concrete (1:4:8) - 20mm agg. in 50mm thick blinding to pits	12	SM		
	<u>Concrete</u>				
	<u>Insitu concrete; reinforced; class 20 / (20mm); vibrated</u>				
B	Pits sloping not exceeding 15 degrees	3	CM		
C	Manhole bases	2	SM		
	<u>Reinforcement</u>				
	<u>Ribbed bars; high yield steel; cold worked to KS 573:2014; and hot rolled; including bends, hooks, tying wire and distance blocks</u>				
D	In assorted reinforcement of various sizes	315	KG		
	<u>Sawn formwork to:</u>				
E	Vertical sides of pit and manhole base	2	SM		
	<u>Vibrated reinforced concrete class 20/25 1:2:4/25 as described.</u>				
F	Structural walls	9	CM		
G	Manhole walls	1	CM		
H	Baffle walls	2	CM		
J	150mm thick suspended cover slab	12	SM		
	<u>Sawn formwork to:</u>				
K	Vertical sides of structural walls	58	SM		
L	Horizontal soffits of suspended slab	12	SM		
M	Edges of bed cover 150mm and not exceeding 225mm high.	14	LM		
N	Soffits of baffle wall.	1	SM		
P	Vertical sides of baffle wall	5	SM		
Q	Box formwork to manhole covers	3	SM		
	<i>Carried to Collection</i>				

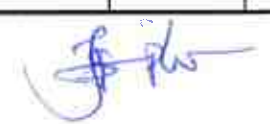
ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Ribbed bars; high yield steel; cold worked to KS 573:2014; and hot rolled; including bends, hooks, tying wire and distance blocks</u>				
A	In assorted reinforcement of various sizes	900	KG		
	<u>Finishes</u>				
B	20mm thick cement/sand mortar wall proof plaster (1:3) to structural walling internally with steel float finish.	100	SM		
C	Ditto externally	12	SM		
D	Ditto suspended slab	12	SM		
E	25mm thick cement/sand mortar water proof (1:3) floor screed to structural base floor with steel float finish	10	SM		
F	Ditto to suspended slab and manholes	10	SM		
G	Plain concrete (1:3:6) in 150mm average bench to manhole internal size 800x600mm including forming chanel and finished smooth.	1	SM		
H	Allow for 300x200mm slots at 500mm centres on structural wall.	5	NO		
J	150mm diameter UPVc Tee in -let and outlet bedded in cement/sand mortar (1:3)	1	NO		
K	Cut holes in 250mm structural wall to receive 150mm diameter pipes and make good.	2	NO		
L	16mm diameter U-shaped mild steel step iron fixed to structural wall.	12	NO		
M	Cut holes in 250mm structural wall to receive 16mm diameter steps (M.S) and make good.	24	NO		
N	Allow for testing by County government and connections.		ITEM		
P	Allow for necessary statutory approvals.		ITEM		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	COLLECTION				
	From page ST/1				
	From page ST/2				
	From page above				
	TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY				



ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>SOAK AWAY PIT</u>				
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>Excavation</u>				
	<u>Over-site excavations: 100-200mm Depth, load and deposit as instructed by the project manager</u>				
A	Reducing levels; 150 mm	5	SM		
B	Excavate for pit n.e. 1.5 m deep	7	CM		
C	Excavate for pit n.e. 1.5- 3.0 m deep	7	CM		
D	Excavate for pit n.e. 3.0- 4.5 m deep	7	CM		
E	Excavate for pit n.e. 4.5- 6.0 m deep	7	CM		
F	Excavate for pit n.e. 6.0- 7.5 m deep	7	CM		
G	Excavate for pit n.e. 4.5- 6.0 m deep	7	CM		
H	Excavate for pit n.e. 6.0- 7.5 m deep	7	CM		
J	Extra-over all excavation for excavating rock irrespective of class.	2	CM		
K	Return, fill-in selected imported 75mm diameter hardcore. 3/4 of pit	30	CM		
L	Excavate for strip footing trenches n.e. 1.5 m deep	7	CM		
M	Ditto but 1.5-3.0	1	CM		
N	Remove and cart away surplus excavated materials.	40	CM		
	<u>Diposal of water</u>				
P	Keeping all excavations free from all water including spring or running water		ITEM		
	<u>Planking and strutting</u>				
Q	Uphold the sides of all excavations		ITEM		
R	Supply and fill pit with stone/bricks filing	8	CM		
S	1000 gauge polythene sheet as DPM	5	SM		
	TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Concrete</u>				
A	<u>Insitu concrete; reinforced; class 20 / (20mm); vibrated</u> 150mm thick concrete slab	6	SM		
	<u>Reinforcement</u>				
B	<u>Supply and fix ribbed bars Reinforcement including bending ,hooks,tving wire,cutting spacersand supporting all in position as decribed</u> In assorted reinforcement of various sizes	900	KGS		
C	25mm thick cement (1:3) sand sreen to roof slab externally	6	SM		
	TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY				
	From page SP/1				
	From page above				
	<i>Carried to Collection</i>				



PROPOSED GO-DOWN AT SIAYA STORE YARD - SIAYA COUNTY

GRAND SUMMARY

BILL NO.	DESCRIPTION	Page No.	CONTRACTOR'S USE		OFFICIAL USE
			K.SHS.	CTS.	K.SHS.
1	TOTAL PRELIMINARIES (BILL NO 3)	PL/15			
	TOTAL BUILDERS WORKS (BILL NO 1)	BW / 20			
	SEPTIC TANK (BILL NO.2)	ST/4			
	SOAK AWAY PIT (BILL NO. 2)	SP/6			
	TOTAL				
	Add: VAT (16%)				
	GRAND TOTAL	K.SHS.			

Amount in words.....

.....

Signature.....

Date.....

Stamp.....

