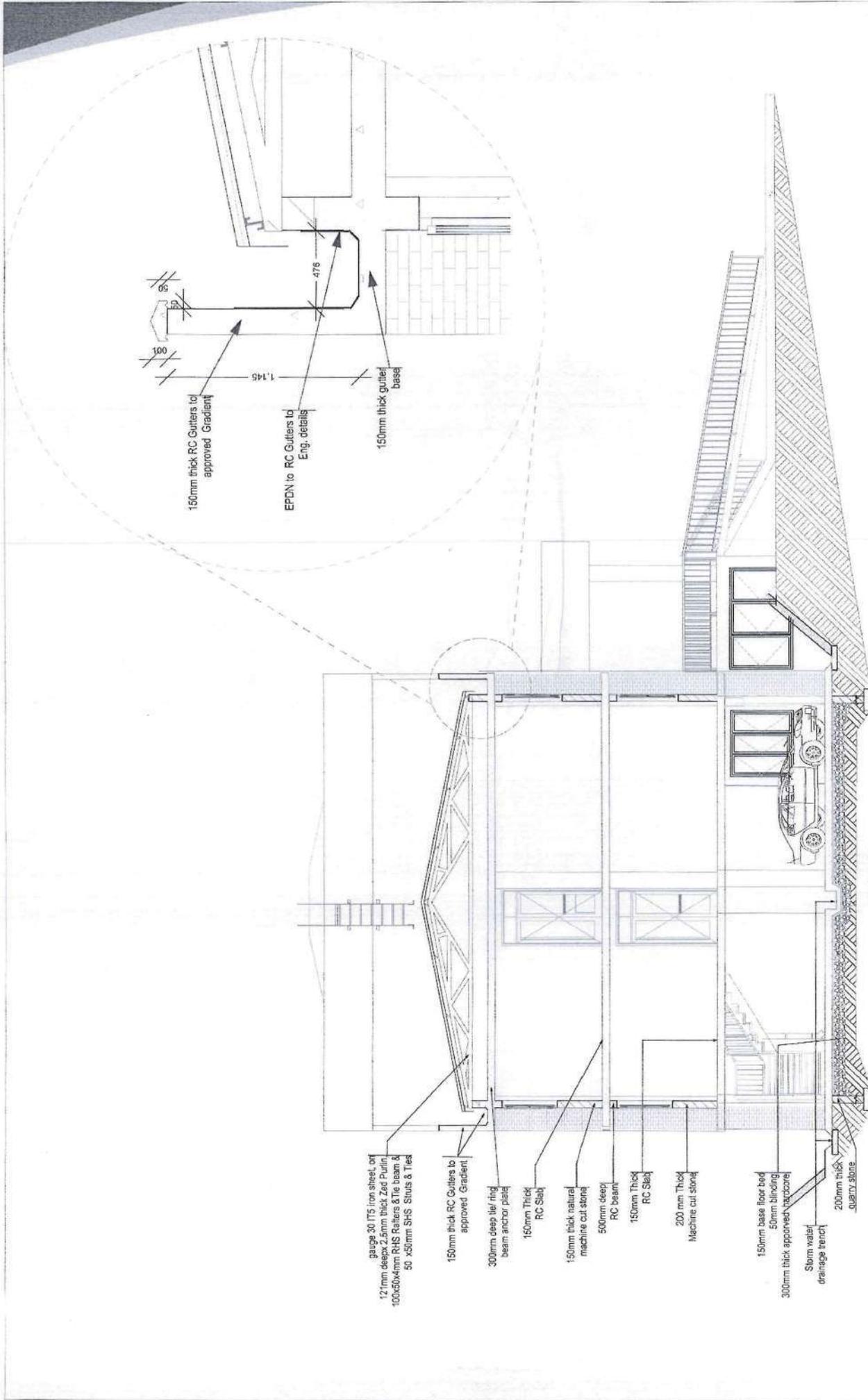


APPROVED BY: MUNY KILIA SOLEMAN NENE DRAWN BY: D. ELIA APPROVED BY: D. ELIA	PROJECT: EXPANSION OF NYERI REGIONAL OFFICE LOT/LR NO: NYER COUNTY FLOOR LAYOUT (6 TH & 1 ST FLOOR)	DRAWING SCALE: 1:85 SHEET NO.: 3
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KENYA POWER
 PROJECT MANAGER: **ELIA**
 COUNTY BUSINESS MANAGER: **NYERI**



gauge 30 ITS iron sheet, on
121mm deep x 2.5mm thick Zed Purlin
100x50x4mm RHS Rafter & Tie beam &
50 x50mm SFS Studs & Tie

150mm thick RC Gutters to
approved Gradient

300mm deep tie/ring
beam anchor plate

150mm Thick
RC Slab

150mm thick natural
machine cut stone

500mm deep
RC beam

150mm Thick
RC Slab

200 mm Thick
Machine cut stone

150mm base floor bed
50mm binding

300mm thick approved Maccorel

Storm water
drainage trench

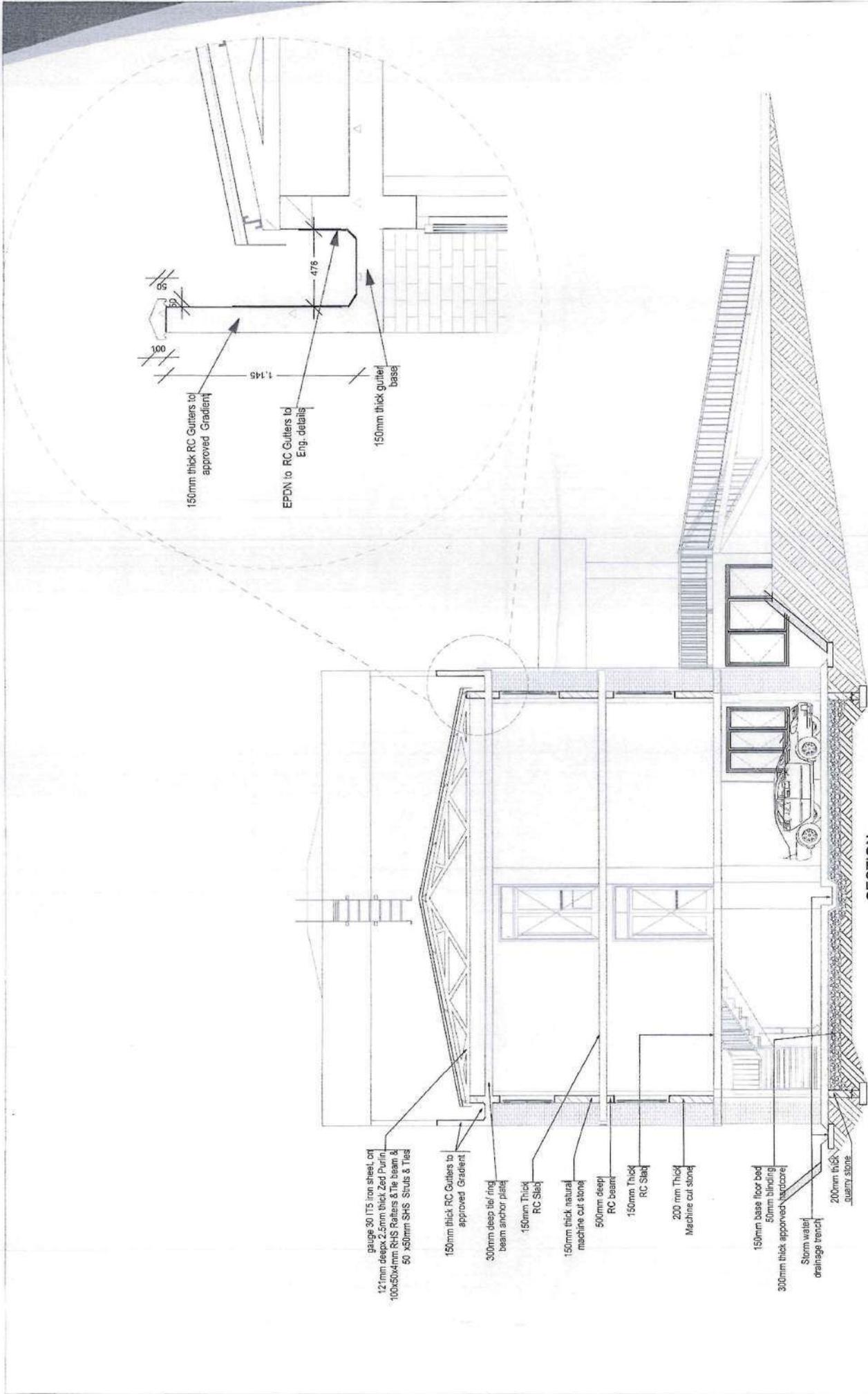
200mm thick
quarry stone

SECTION

APPROVED BY:	Mr. J. M. Mwangi	Supervisor	DATE:	12/12/2024	DESIGNED BY:	Mr. J. M. Mwangi	DATE:	12/12/2024
APPROVED BY:	Mr. J. M. Mwangi	Principal Project Officer	DATE:	12/12/2024	DESIGNED BY:	Mr. J. M. Mwangi	DATE:	12/12/2024
APPROVED BY:	Mr. J. M. Mwangi	Regional Manager - Mt. Kenya	DATE:	12/12/2024	DESIGNED BY:	Mr. J. M. Mwangi	DATE:	12/12/2024
APPROVED BY:	Mr. J. M. Mwangi	County Business Manager - Nyeri	DATE:	12/12/2024	DESIGNED BY:	Mr. J. M. Mwangi	DATE:	12/12/2024

JOB TITLE: PROPOSED EXPANSION OF NYERI REGIONAL OFFICE
LOT LR NO. NYERI COUNTY
SECTION (X-X) & GUTTERS DETAILS





SECTION

Client	CENTRAL OFFICE	Location	Lot 1/10, 5/10, 6/10, 7/10, 8/10, 9/10, 10/10	Scale	1:80
Approved By:	Mury Karisa (Manager: Administration & Property)	Date	22/11/24	Job Title:	PROPOSED EXPANSION OF NYERI REGIONAL OFFICE
Approved By:	Sabina Wiro (Principal Projects Officer)	Drawn By:	Edwin Mwangi (Snr. Technician-OO)	Lot / R. No.	NYERI COUNTY
Approved By:	USER REGION	Checked By:	Edwin Mwangi (Snr. Technician-OO)	SECTION (1 & 2) & GUTTERS DETAILS	
Approved By:	Dr. Eds. Arsil Masing (Regional Manager - Mt. Kenya)	Checked By:	Edwin Mwangi (Snr. Technician-OO)	Drawing Scale	1:80
Approved By:	Duncan A. Mwachaka (County Business Manager- Nyeri)	Checked By:	Edwin Mwangi (Snr. Technician-OO)	SHEET NO. 4	



PART NO."1"

TRADE PREAMBLES

KENYA POWER

TP/1/21

Ben.
20/2/2026

PART NO. 1

TRADE PREAMBLES

1.00 GENERALLY

- .01 Unless otherwise stated the whole of the Main Contract Works shall be carried out in accordance with the Ministry of Works (M.O.W.) General Specifications for Building Works 1976 Edition together with any amendments thereto and all references in this Section are to this document.
- .02 The whole of the Works shall be carried out in accordance with the drawings listed in the Schedule of Drawings appearing in these Bills of Quantities and any further drawings issued in amplification thereof.
- .03 This Section shall be known as the Specification and shall be held to include the Special Notes on Page A1 and the General Preliminaries on B1 – 22 of the M.O.W. General Specifications.
- .04 These Trade Preambles are intended to supplement, amplify or amend the Clauses in the M.O.W. General Specification, or select therefrom specific provisions applicable to this Contract.
- .05 These Trade Preambles shall take precedence over the M.O.W. General Specifications.

2.00 SITE COPY

- .01 The Contractor is instructed to purchase two (2) copies of the above General Specification from the Ministry of Lands, Housing & Urban Development - State Department of Public Works and to retain one copy in the site office at all times.

3.00 APPLICATION

- .01 These Trade Preambles shall apply to all Bill items for Building Works contained in the following Bills of Quantities and to any works instructed by the Project Manager including all works covered by P.C. and Provisional Sums and the rates and Lump Sum tenders for all items shall include for complying in all respects with these Trade Preambles and their provision.

4.00 TERMS

- .01 Where the terms “D.R.” occurs in the M.O.W. General Specification this shall be taken to mean the “Project Manager”.
- .02 Where the term “Ministry of Works” occurs in the M.O.W. General Specification this shall be taken to mean the “Employer” or the “Project Manager” whichever is the more appropriate.

5.00 MANUFACTURER’S NAME

- .01 Manufacturer’s names and catalogue references are given solely as a guide to quality and alternative manufacturers of materials or goods of equivalent quality will be accepted at the discretion of the Project Manager.

PART NO. 1 (Ctd.)

TRADE PREAMBLES (Ctd.)

6.00 DEMOLITIONS

- .01 The Trade Preambles given in Pages C1 – C5 shall apply where appropriate.
- .02 All such work shall where required by the Contract and authorised by the Project Manager to be carried out with maximum precautions for safety and to avoid or minimise damage or disturbances to the adjacent buildings, areas, materials and occupants.
- .03 Every effort shall be made to carry out such work carefully and in such manner and by such means as to ensure the minimum breakage or damage to the works to be so taken down or dismantled and to ensure the maximum recovery of materials arising from these operations.
- .04 All materials so recovered from taking down and dismantling shall become the property of the Employer. Unless otherwise directed by the Project Manager, the Contractor shall hand over to the Employer such items immediately they are taken down or dismantled.
- .05 Such materials may only be reused for incorporation in the works by agreement with the Project Manager.
- .06 The Contractor shall allow for erecting, maintaining and later removing all scaffolding, shoring or temporary works in connection with the demolition works, for making good all work disturbed in all trades and for removing all rubbish from the site as the works proceed.
- .07 Supply, erect and maintain during the cutting of openings, etc. all necessary protection to the existing premises against damage by weather or other causes.
- .08 Allow for laying the dust as far as possible during the demolition by watering with a hose or other means.
- .09 Tenderers are advised to visit the site to ascertain the nature of demolitions and downtakings to be carried out and to clarify with the Project Managers all matters related to the works.

7.00 EXCAVATIONS AND EARTHWORKS

- .01 The Trade Preambles given in Pages D1-D11 shall apply.
- .02 The surface strip excavation of the vegetable top soil shall be 200mm deep over the whole area of the buildings in accordance with Clause 0725 and the excavated material shall be deposited separately in spoil heaps well away from other excavated material in accordance with Clause 0784.
- .03 Excavations for wall foundations shall be taken down to firm ground to the approval of the Project Manager and the bottom well rammed and approved before concreting. The width of the foundation shall comply with Clause 0722 on Page D6.
- .04 The actual depth of the foundation trenches shall be determined on site.

PART NO. 1 (Ctd.)

TRADE PREAMBLES (Ctd.)

- 7.00 EXCAVATIONS AND EARTHWORKS (Ctd.)
- .05 Insecticide treatment shall be "Termidor" or other equal and approved and shall be carried out in accordance with Clause 0827 and 0859. The bottoms of all excavations shall be treated with anti-termite insecticide treatment in accordance with the manufacturer's recommended instructions. The Contractor shall provide a Ten-year guarantee for all such treatment from an approved firm.
 - .06 Backfilling around foundations is to be carried out with selected excavated or other imported materials in accordance with Clauses 0700 and 0735. The backfilling will be free from clay or vegetable soil and well rammed around foundations.
 - .07 Disposal of surplus excavated material shall be in accordance with Clauses 0612 and 0782.
 - .08 The vegetable soil from the surface strip is to be spread and levelled on site as directed and prepared to receive grass.
 - .09 Explosives must not be used without the prior approval of the Project Manager and if authorised must be carried with Clause 0628 as specified.
 - .10 Planking and strutting to excavations shall be provided in accordance with Clause 0733 and shall be deemed to be included in the Tender Price and the Tenderer's rate for excavation.
 - .11 Disposal of water shall be as specified in Clauses 0770 to 0775.
 - .12 Hardcore filling to make up levels under floors shall be in accordance with Clauses 0810 to 0874 and minimum 200mm thick.
 - .13 The hardcore filling is to be of clean hard stone broken from 150mm gauge downwards well packed rolled and consolidated to the satisfaction of the Project Manager in accordance with Clauses 0185 and 0868 or 0869 as required.
 - .14 The hardcore filling is to be blinded with approved stone quarry dust or approved quality murrum well watered and rammed and finished smooth to receive concrete flooring, all in accordance with Clause 0871 and approved chemical anti-termite treatment applied to surface of hardcore to be executed by the Main Contractor as before described under a written ten year guarantee.
 - .15 One layer 1000 gauge polythene sheeting is to be laid over the area of the hardcore and through the walls in accordance with Clauses 1105 and 1312. Care must be taken to ensure that the hardcore bed is perfectly smooth before laying the sheeting. Extent of laps shall be minimum 300mm. Labour forming battering faces shall be allowed for.
 - .16 The Ground Floor level is to be decided on site but should be an average of 400mm above existing ground level.
 - .17 The whole site and excavations in particular are to be kept free from water and mud by bailing or pumping as required.

PART NO. 1 (Ctd.)

TRADE PREAMBLES (Ctd.)

8.00 CONCRETE WORK

- .01 The Trade Preambles given in Pages F1 – F34 shall apply.
- .02 The whole of the concrete work shall be carried out in accordance with the Structural Engineer's drawings and to his satisfaction.
- .03 The Contractor shall use "Guaranteed Strength" concrete in accordance with the Engineer's requirements.
- .04 Concrete test cube will be required and should be prepared in accordance with the procedure laid down in Clause 282 on Page F15.
- .05 Volume batching of sand and aggregate will be permitted in accordance with Clause 1165. The gauge boxes must be manufactured of steel as directed by the Project Manager and must be kept thoroughly clean at all times and in good repair. Failure to do so may result in the Project Manager directing that all measuring will be by weight batching in accordance with Clause 1167.
- .06 Extreme care must be taken in the storage of all concreting materials on site in accordance with Clauses 1132 and 1134. No materials which have become contaminated or intermixed in any way will be allowed to be used in the works. Special care is necessary to ensure that no soil become mixed with the aggregates or sand.
- .07 All construction joints shall be formed and treated strictly in accordance with Clauses 1360 to 1369 as directed by the Project Manager.
- .08 "Fair faced" concrete finish, if required, will be as defined in Clause 1415.
- .09 Concrete curing to vertical or inclined surfaces shall be carried out by methods 1 and 3 as described in Clause 1385 and as directed by the Project Manager.
- .10 Generally, wall foundations, floor beds and superstructure concrete work shall be in concrete (1:1½ :3 Class 25/20mm) mix reinforced as in the Structural Engineer's drawings.
- .11 Formwork shall be sawn timber of approved quality except where fair face finish is required in which case wrot formwork shall be used. The formwork shall be closely laid to prevent leakage of the cement and water content of the concrete.
- .12 Steps in concrete foundations where required should be of 225mm depth or its multiple and the overlap along the length must not be less than the width of the foundation. The location of any steps required will be decided on site.
- .13 Fabric reinforcement shall be as indicated on the Engineer's drawings and shall be to B.S. 4483 with minimum 300mm side and end laps. Allowance for laps under partitions shall be allowed for.
- .14 The Tenderer shall allow in his tender price for providing reinforcement to concrete works as indicated in the Structural Engineer's drawings.

PART NO. 1 (Ctd.)

TRADE PREAMBLES (Ctd.)

8.00 CONCRETEWORK (Ctd.)

- .15 Precast concrete shall be in accordance with the Pages F33 – F34 and in class 20/12mm to Project Manager's details and approval.
- .16 Mild steel reinforcement shall be to B.S. 4499 and high tensile reinforcement to B.S. 4461, all in accordance with the Engineer's Bending Schedules.
- .17 Joints in concrete work where shown on the drawings shall be 12mm thick "Flexcell" fibre-board or other approved joint with exposed surfaces sealed with "Plastic" sealant.

9.00 WALLING

- .01 The Trade Preambles given in Pages G1 – G15 shall apply.
- .02 All foundation walling shall be in natural stones.
- .03 Unless otherwise stated, all load bearing walling shall be in local natural stone. Internal walling may be in solid concrete block walling complying with the Clauses 2220-2346.
- .04 Vertical d.p.c. is to be provided to walling where shown on the drawings or to the Project Manager's and Engineer's instructions.
- .05 If required, louvred block walling shall be in decorative precast concrete louvred blocks to the approval of the Project Manager.
- .06 Substructure walling shall be bedded, jointed and pointed in cement and sand mortar (1:3).
- .07 The mortar to be used for superstructure walling shall be composed of one part cement to one part lime and six parts sand (1:1:6) measured in gauge boxes and thoroughly mixed dry preferably with an approved mechanical mixer or on a clean and approved mixing platform with water added afterwards until all parts are completely incorporated and brought to a proper consistency and used within the hour. No partially or wholly set mortar will be allowed to be re-used or re-mixed. Clauses 2110 to 2136 shall apply.
- .08 All walls 150mm thick and less shall be reinforced with 25mm hoop iron 20 s.w.g. in every alternate course.
- .09 Where walls are built up under existing lintels, beams or roof slabs, care shall be taken to ensure that the top course shall be completely filled up with cement mortar and pinning and keying to the underside of existing surfaces shall be done with approved wedging materials well driven in.
- .10 Where applicable, all new walling is to be cut, toothed and bonded into existing walls and any damages or cracked portions of adjoining walling shall be made good or replaced with new work.
- .11 Damp proof courses to walls shall be Hessian based bitumen felt or other equal and approved not less than 3.9kg per square metre in one layer and shall be laid and bedded in cement mortar as before described to all walling at ground floor level.

PART NO. 1 (Ctd.)

TRADE PREAMBLES (Ctd.)

10.00 ASPHALT WORK AND WATERPROOFING

- .01 The Trade Preambles given on Pages J1-J4 shall apply.
- .02 All mastic asphalt work shall be carried out by an approved Sub-contractor in accordance with Clause 2881. Any tanking shall be carried out in accordance with the manufacturer's printed instructions.
- .03 A One year Guarantee for all asphaltic work shall be provided in accordance with Clause 2888.
- .04 Horizontal and vertical asphalt tanking shall be carried out in accordance with Clause 2888.
- .05 Asphalt tanking shall comply with Clause 2824 and 2941.
- .06 Isolating membranes shall comply with Clauses 2852, 2908 and 2943.
- .07 Internal angles at junctions of horizontal and vertical tankings and turning-in of vertical tanking at top edge shall be carried out in accordance with Clauses 2955 and 2956 respectively.
- .08 Preparation of surfaces to receive tankings shall be carried out in accordance with Clauses 2891, 2894, 2896, 2902 and 2912.
- .09 Internal angles at junctions of horizontal and vertical tankings and turning-in of vertical tanking at top edge shall be carried out in accordance with Clauses 2955 and 2956 respectively.
- .10 Preparation of surfaces to receive tanking shall be carried out in accordance with Clauses 2891, 2894, 2896, 2902 and 2912.
- .11 The waterproofing agent to waterproofed cement sand screeds and plasters to swimming pool shall be "Sika-1" waterproofing compound. The concrete used for the construction of the swimming pool shall be mixed with Sika-Plastocrete – N waterproofing compounds. Both "Sika-1" and "Sika Plastocrete – N" waterproofing compounds are available from, several suppliers in Nairobi or other equal and approved compound. The normal rate of application of the "Sika 1" compound is 1 part of "Sika 1" to 10 parts of clean mixing water. The mixing of the "Sika 1" compound and water, cement and sand and the application of the screeds, including the number of coats to be applied shall all be carried out in accordance with the manufacturer's instructions as set out in their latest catalogue. The waterproofing additive shall comply with Clause 7165.
- .12 Construction joints in swimming pool shall have p.v.c. water bars. The water bars shall be fixed in accordance with the manufacturer's printed instructions.

PART NO. 1 (Ctd.)

TRADE PREAMBLES (Ctd.)

11.00 ROOFING

- .01 The Trade Preambles given in Pages K1-K19 shall apply.
- .02 The roof covering to roofs of sheds, shades, and the like unless otherwise specified in the Bill of quantities shall be 26 gauge pre-painted box profile roof sheeting fixed to mild steel zed purlins using galvanised J-Bolts and plastic washers. The washers and bolts shall comply with Clauses 3223 and 3224 respectively.
- .03 Rainwater down-pipes and fittings shall generally be supplied and fixed in accordance with Clauses 6111-6239.
- .04 All metal flashings, valley gutters and linings shall be of approved gauge pre-painted iron sheet metal made up and fixed in the best approved manner in accordance with Clauses 3620-3696.
- .05 Copings shall be in precast concrete and shall comply with Clauses 1770-1868. The mortar for bedding shall be cement and sand (1:4) and comply with Clauses 210-2136.
- .06 Covering to pitched roofs of public areas and bedroom blocks in hot areas like Mombasa and the like shall be "Harvey Thatch" roof tiles. The tiles and fittings shall comply with Clause 3122. The tiles shall be laid in accordance with the manufacturers printed instructions and to the approval of the Project Manager.
- .07 All verge tile, half tiles and ridge tiles shall be "Harvey Tiles" or other equal and approved tiles to match the roof tiles and shall be laid and fitted in accordance with the manufacturer's printed instructions and to the approval of the Project Manager.
- .08 Softwood tiling battens shall comply with Clause 3102. They shall be fixed to timber rafters in accordance with Clause 3155.
- .09 The polythene underlay shall be 1000 gauge and shall comply with Clause 3115. The underlay shall be laid in accordance with Clause 3152. The nails for fixing underlay shall comply with Clause 3137.
- .10 Matching accessories (ridges, ventilators etc.) shall also be provided to match roof sheets profile.
- .11 Polystyrene or other equal and approved type of filler blocking pieces where applicable shall be provided and secured with adhesive between both flanges of the ridging and the roof sheeting in order to block up the gaps within the corrugations. The Polystyrene shall comply with Clauses 3208.
- .12 All sundry materials for the roofing shall comply with Clauses 3140-3148.

PART NO. 1 (Ctd.)

TRADE PREAMBLES (Ctd.)

12.00 CARPENTRY

- .01 The Trade Preambles given in Pages L1-L13 shall apply.
- .02 The timber for carpentry work generally is to be Grade H sawn or wrot cypress or podocarpus of approved moisture content in accordance with Section 3720 and shall be treated with preservative and specified in Clause 3728.
- .03 The lower ends of all structural timber members shall be coated with bitumen before building into foundations, walling etc.
- .04 All structural joints shall be to the design and approval of the Structural Engineer and cut ends shall be treated as described in the foregoing before being put together. All joints shall be bound with hoop iron.
- .05 A Certificate of Treatment shall be provided in accordance with Clause 3730.

13.00 JOINERY

- .01 The Trade Preambles given in Pages M1-M21 shall apply.
- .02 Softwood timber where required is to be Select (Prime Grade) wrot cypress of approved moisture content in accordance with Clause 4032 and treated with preservative as above.
- .03 Hardwood timber generally is to be prime grade mahogany of approved moisture content and treated with preservative as above.
- .04 All items of joinery shall have pencil rounded arises for protection against damage and for bedding frames and cills in cement and mortar.
- .05 Holes for plugs shall be formed by using masonry drills and fitting with proprietary plugs of the correct size, cutting holes with hammer and chisel will not be permitted.
- .06 The joinery fittings are to be made up in the best approved manner in accordance with Clauses 3670-4691 and shall be manufactured to the Project Manager's details.
- .07 Samples of each type of joinery fixtures have to be approved by the Project Manager before manufacturing of further items and the Project Manager shall be given Notice of the workshops where these are to be manufactured so that if required these can be inspected during manufacture and before delivery to the site.
- .08 Doors, door frames, fanlight frames, architraves and beads shall be provided in accordance with the Project Manager's Door Schedule.
- .09 Flush doors shall be solid cored faced on both sides with imported plywood and hardwood lipped on all edges and shall comply with Clause 4564 and hung in accordance with Section 4640.
- .10 Glazed panels in doors shall be in accordance with the Project Manager's drawings.

PART NO. 1 (Ctd.)

TRADE PREAMBLES (Ctd.)

13.00 JOINERY (Ctd.)

- .11 Frames, linings, architraves and beads to flush doors shall be in wrot mahogany and shall comply with Clauses 4512 and 4624.
- .12 All door frames shall be fixed to walls using mild steel cramps.
- .13 Ironmongery for the works shall be fitted and fixed in the best approved manner in accordance with Clauses 4850-4898.
- .14 The fixing of ironmongery will be deemed to include for fixing with matching screws including cutting, sinking, boring morticing and fitting the ironmongery, removing before and refixing after painting and labelling and safe-guarding the keys to each lock.
- .15 All ironmongery shall be tested and be fully operative before the handing over of the works.
- .16 Generally all doors shall have ironmongery as indicated in the Door Schedule.
- .17 Joinery fittings to cupboards, drawers and associated ironmongery shall be provided in accordance with the Project Manager's details.
- .18 All ironmongery, veneer and laminated plastic sheeting shall be selected by or be subject to the approval of the Project Manager.
- .19 Veneered blockboard shall comply with Clauses 4065 and 4067 and shall be fixed in accordance with Sections 4160 and 4400.
- .20 Blockboard shall comply with Clauses 4057 and 4056 and shall be fixed in accordance with Section 4400.
- .21 Laminated plastic sheeting shall be "Formica" or other equal and approved plastic sheeting of an approved colour and texture and shall comply with Clause 4079 and shall be fixed in compliance with Clause 4168 and Section 4400.
- .22 Adhesive generally shall comply with Clauses 092 to 4096, 4162 and 4414.
- .23 Shelves shall be 25mm thick blockboard lipped on exposed edges with hardwood lipping, all in accordance with Clause 467 and shall be fixed to metal bearers in accordance with the Project Manager's drawings.

14.00 METALWORK

- .01 The Trade Preambles given in Pages P1-P11 shall apply.
- .02 All windows shall be purpose made large-pane Z-section steel casement glazed.
- .03 All windows shall be in accordance with the Project Manager's Schedule of Windows.
- .04 All steelwork shall be mild steel to B.S. 4360 Grade 43B and B.S. 449

PART NO. 1 (Ctd.)

TRADE PREAMBLES (Ctd.)

14.00 METALWORK (Ctd.)

- .05 All steelwork shall be finished with one coat of zinc chromate and two coats of red oxide paint as specified in Clause 5911 prior to erection.
- .06 Steel and aluminium sections shall conform to Section 5530.
- .07 Fasteners and stays for the steel windows shall be of imported quality brass.
- .08 Aluminium frames shall conform to Clause 5917.
- .09 All aluminium sections shall comply with Clauses 5551 and 5553.
- .10 Aluminium sheets and plates shall comply with Clause 5591.
- .11 Fastenings for aluminium sections shall conform to Clauses 5671, 5618 and 5921.
- .12 All window frames shall have permanent vent slots as described with wire mesh mosquito proofing as Clause 5576.
- .13 Welding to aluminium will conform to Clause 5701.
- .14 All welds shall be neatly executed in accordance with Section 5680.
- .15 Bolts, screws, nuts and washers shall match the material of the section being secured and shall comply with Clauses 5622 and 5625. All holes for fixing screws shall be counter-sunk.
- .16 The fixing of metal windows shall include for assembling parts, bedding and pointing in mastic, building in fixing lugs and plugging, fitting and adjusting handles and fasteners on completion.
- .17 Metal window frames shall be bedded in an approved bedding compound in conformity with Clause 935 and shall be neatly pointed all round on completion with approved pointing sealant in compliance with Clause 5937 and left clean to the approval of the Project Manager.
- .18 Plugs shall conform to Clause 5927.

15.00 STRUCTURAL STEELWORK

- .01 The Trade Preambles given in Pages N1-N19 shall comply.
- .02 The Project Manager may require all structural steelwork to be carried out by an approved Sub-Contractor in accordance with Clauses 5002 and 5091.
- .03 All steel sections shall be hot rolled to comply with Clauses 5030 – 5036.
- .04 Steel plates shall comply with Clause 5052.
- .05 Bolts, nuts and washers shall comply with Clauses 5064.
- .06 Rag bolts and nuts shall comply with Clauses 5068.

PART NO. 1 (Ctd.)

TRADE PREAMBLES (Ctd.)

- 15.00 STRUCTURAL STEELWORK (Ctd.)
- .07 Steel plates shall comply with Clause 5052.
 - .08 Shop drawings shall be prepared and submitted in accordance with Clause 5147.
 - .09 Fabrication of the structural steelwork shall conform to Clauses 5100-5147.
 - .10 All welding work shall be carried out in accordance with Clauses 5150-5173.
 - .11 Bolting and rivetting shall be carried out in accordance with Clauses 5190-5221.
 - .12 All structural steel shall be hot dip galvanised in accordance with Clause 5236 and shop primed in accordance with Clause 5231 before delivery to site.
 - .13 Erection shall be carried out in compliance with Clause 5240-5261.
 - .14 Testing of all structural steelwork shall be carried out in accordance with Clause 5271.
- 16.00 MECHANICAL SERVICES INSTALLATIONS
- .01 The Trade Preambles given in Pages Q1-Q24 shall apply.
 - .02 All the Mechanical Services installations shall be carried out by a nominated and /or domestic Sub-Contractor in accordance with the Drawings, Specifications and Bills of Quantities prepared by the Project Manager's Services Engineers.
 - .03 The Main Contractor shall arrange and monitor a Programme for the work of the Sub-Contractor and for all other Sub-Contracts affected by them. The Main Contractor shall ensure that all work and Builder's Work in connection is carried out in a sequence which will allow under-floor drains, piping in ducts, chases and the like leading to or from all sanitary fittings, hot or cold water tanks, gully traps, vent pipes and the nearest manholes to be installed in their correct positions in order to minimise the amount of cutting of holes, chases, floor ducts, etc. as much as possible.
 - .04 The Main Contractor shall carry out the Builder's Work in connection with the Sub-Contract including cutting or forming holes and chases and later making good.
 - .05 The Trade Preambles on Pages Q4-Q8 will apply to rainwater pipes and gutters.
 - .06 Rainwater downpipes and gutters and fittings shall comply with Clause 6121 and shall be fixed in accordance with Sections 6160 and 6190.
 - .07 Roof outlets, gutter brackets, fixing and jointing materials shall be in accordance with Section 6140.
 - .08 Testing of downpipes and gutters shall be carried out in accordance with Section 6230.

PART NO. 1 (Ctd.)

TRADE PREAMBLES (Ctd.)

17.00 ELECTRICAL INSTALLATIONS

- .01 The Trade Preambles given in Pages R1-R4 shall apply.
- .02 The Electrical Installation work shall be executed by Nominated and / or domestic Sub-Contractors in accordance with the Sub-Contract document prepared by the Project Manager's Electrical Services Engineer.
- .03 The Builder's Work in connection with Electrical Installation shall be carried out by the Main Contractor and the Trade Preambles given in Pages R1-R4 relating to this work shall apply.
- .04 The Main Contractor should particularly note the Clause 6906 on Page R1 relating to the Programme and sequence of works.
- .05 All necessary pipe ducts and the like shall be built in as directed by the Project Manager in readiness for the Electrical Sub-Contractor.
- .06 All conduits, junction boxes and other requirements shall be built into the concrete floor and roofing slabs where required and adequate notice shall be given to the Electrical Sub-Contractor and the Project Manager to enable these to be positioned before concreting.

18.00 FLOOR, WALL AND CEILING FINISHES

- .01 The Trade Preambles given on Pages S1-S25 shall apply.
- .02 Finishes generally shall be of the best quality and workmanship and to the approval of the Project Manager.
- .03 If required by the Project Manager a sample panel or panels of any particular finish shall be prepared for his approval and once approved shall form the standard for all similar finishes.
- .04 The joints between different finishes shall be neatly and cleanly executed to the approval of the Project Manager.
- .05 All adjoining surfaces shall be fully protected against any splashing or other damage and such protection shall be afterwards removed and all surfaces made good to the approval of the Project Manager.
- .06 Attention is drawn to Clause 7697 wherein it is specified that the Main Contractor is responsible for preparing all sub-floors, screeds and other backgrounds to the satisfaction of the Sub-Contractor and Project Manager. The Main Contractor must ensure that all such surfaces are smooth level or to required even falls and levels and any cracks or hollows shall be filled with approved levelling compound to the satisfaction of the Sub-Contractor and Project Manager.
- .07 The finishes shall be as per the schedule of finishes appended to these Bills of Quantities.
- .08 Cement and sand screed paving shall be treated with Sodium Silicate in accordance with Clauses 7177 and 7417.
- .09 The internal wall finish shall generally be cement, lime and sand (1:1:6) plaster.

PART NO. 1 (Ctd.)

TRADE PREAMBLES (Ctd.)

18.00 FLOOR, WALL AND CEILING FINISHES (Ctd.)

- .10 External wall finishes shall generally be of cement and sand (1:4) render.
- .11 Plastering and rendering shall be carried out in accordance with Clauses 7180-7307.
- .12 Soffits of concrete slabs and staircases shall generally be finished in minimum 12mm thick two-coat lime plaster and three coats plastic emulsion paint.
- .13 Sides and soffits of beams shall generally be finished in steel float plaster internally.
- .14 A neat "V"-groove shall be provided to all joints between plaster or render to walls and reinforced concrete element. 25mm x 30 s.w.g. hoop iron ties shall be cast into concrete elements at 500mm centres at all such joints to serve as ties for the walling.
- .15 Where specified "making good" shall include repairing and filling in cracks, interstices, holes etc. using an approved filler, rubbing or sanding down with sand paper or emery paper, wire brushing and generally restoring the work to match any similar approved work and preparing for repainting or receiving a new finish.

19.00 GLAZING

- .01 The Trade Preambles given on Pages T1-T6 shall apply.
- .02 All glazing shall be carefully executed by an approved Specialist Sub-Contractor.
- .03 Unless otherwise described, glazing to windows is generally 6mm thick clear sheet glass or obscure glass in accordance with Clauses 8326 and 8335 respectively.
- .04 Glazing shall be carried out in accordance with Clauses 8400-8417.
- .05 Glazing to metal windows and doors shall be carried out in accordance with Clauses 8420-8433 using first quality metal casement putty in accordance with Clause 8371.
- .06 All Puttying shall be neatly executed and all front and back puttying shall be to the full height of the frames and cut off cleanly with a putty knife and left perfectly smooth.
- .07 Glazing to timber doors and frames shall be carried out using hardwood timber beads in accordance with Clauses 8440-8461.
- .08 All exposed edges shall be rounded and polished in accordance with Clause 8382.
- .09 Glazing strips, channels and sealant compounds shall conform to Clause 8351.
- .10 Edge clearance and edge cover shall be in accordance with Clauses 8406 and 8407 respectively.
- .11 External glazing shall be weather tight in accordance with Clause 8402.

PART NO. 1 (Ctd.)

TRADE PREAMBLES (Ctd.)

19.00 GLAZING (Ctd.)

- .12 Mirrors shall be supplied and fixed in accordance with Clause 8347 and 8418.
- .13 All broken or damaged glass or mirrors shall be replaced before practical completion and the surrounds redecorated to the Project Manager's approval.

20.00 PAINTING AND DECORATING

- .01 The Trade Preambles given in Pages U1-U8 shall apply.
- .02 The whole of the work shall be carried out by an approved painter whose name must be submitted for approval by the Project Manager in accordance with Clauses 8501.
- .03 The paint treatment and colour will be selected by the Project Manager and shall be carried out to the full satisfaction of the Project Manager.
- .04 Samples of primers, paints, varnishes and all other treatments to be used in the works shall be submitted to the Project Manager for approval before commencement.
- .05 All backs of timber frames to doors or other joinery surfaces adjoining masonry, concrete block or clay block walling shall be primed as described in Clauses 8512, 8755 and 8756.
- .06 The metal casement putty to all windows shall be primed with one coat approved aluminium primer as soon as the putty is dry, in preparation for finishes.
- .07 Plastered external wall surfaces generally shall be painted with three coats permaplast paint.
- .08 Internal walls are to be painted with three coats of plastic emulsion paint.
- .09 Ceilings are to be painted with three coats of plastic emulsion paint.
- .10 Surfaces of mahogany veneered flush doors and associated frames shall be primed and finished with three coats of two-pack polyurethane.
- .11 All hardwood timber work is to be varnished with three coats of two pack polyurethane varnish.
- .12 All paint shall be from an approved manufacturer.
- .13 All softwood and blockboard timber surfaces generally are to be painted with two undercoats and one finishing coat gloss oil paint.
- .14 All exposed steelwork shall generally be primed with a plumbatic primer and finished in two undercoats and one finishing coats of gloss oil paint.
- .15 All manhole covers shall be finished in one coat of black bituminous paint.

PART NO. 1 (Ctd.)

TRADE PREAMBLES (Ctd.)

20.00 PAINING AND DECORATING (Ctd.)

- .16 All external wall plinths shall be finished in two coats of black bituminous paint.
- .17 Where cracks etc. in walling or plaster are repaired, the whole of the panel or "area affected shall be" repainted to the Project Manager's satisfaction.

21.00 EXTERNAL WORKS

- .01 The external works generally shall be carried out in accordance with the Foregoing Trade Preambles where applicable and the Trade Preambles given on Pages VI-V16 and Access Road 1 - Access Road 13.

22.00 DRAINAGE

- .01 The Trade Preambles on Pages VI-V11 shall apply.
- .02 Attention is drawn to items .01 to .03 of the foregoing Trade Preambles for Plumbing and Engineering Installations.
- .03 All excavations and backfilling in black cotton soil shall be carried out in accordance with Clause 9011, 9140 to 9155 and 9280 to 9298.
- .04 Excavations and backfilling in black cotton soil shall be carried out in accordance with Clause 9149. Selected fill shall be in accordance with Clauses 9103 No. 9195.
- .05 The topsoil shall be excavated, kept separate in spoil heaps, re-excavated and spread and levelled as described in Clauses 0691 and 0784.
- .06 Surplus material after backfilling shall be spread and levelled or otherwise disposed off as described in Clauses 0622 and 0782. Surplus rock shall be used as filling materials where directed or shall be removed from site if so directed.
- .07 Pipes are be bedded and laid in trenches in accordance with Clause 9162 and 9164.
- .08 Pipes and fittings shall generally be Golden Brown unplasticised polyvinly chloride (U.P.V.C.) pipes Class 41 to comply with B.S. 4660 (1973/78) and B.S. 3481 (1977). The joints shall be chamfered spigot and ring seal socket with elastomeric sealing ring in accordance with B.S. 2494 and Clauses 9032 and 9221.
- .09 Pipes under buildings, roads and parking areas where specified shall be cast iron spigot and socket pipes to comply with B.S. 4472 and in accordance with Clause 9051.
- .10 Beds and surround to pipes shall be in accordance with Clauses 9160-9199.
- .11 Drain pipes shall generally be bedded and surrounded in granular material in accordance with Clauses 9101, 9173 and 9174. P.V.C. pipes must not be surrounded with concrete.

PART NO. 1 (Ctd.)

TRADE PREAMBLES (Ctd.)

22.00 DRAINAGE (Ctd.)

- .12 Where directed pipes shall be bedded and surrounded in Type 'C' concrete bed and surround in accordance with Clauses 9132, 9178 and 9183. The concrete bed and surround shall comply with Clauses 9105 and 9167. Where the ground is of low bearing capacity, the concrete bed is to be reinforced in accordance with Clause 9197. The backfilling around pipes having a concrete bed and surround shall be in accordance with Clauses 9285 and 9281.
- .13 Gulley traps shall be bedded and surrounded in accordance with Clause 9199.
- .14 Manholes shall be constructed in accordance with Clauses 9240 to 9261. Cast iron manholes covers and frames shall comply with Clause 9081 and steps irons shall comply with Clauses 9087.
- .15 Concrete blocks for manholes and culvert headwalls shall be built in Group I cement/lime putty/sand mortar (1:1:3 mix) as in Clause 2114. Cement for mortar and internal render to manholes shall be sulphate resisting Portland Cement as Clause 1082. All exposed blockwork shall be rendered with cement and sand (1:5) mortar as Clause 7047.
- .16 Invert block drains and side slabs shall conform to Clause 9072 and shall be laid as specified on the drawings and directed by the Project Manager.
- .17 The banks to both sides of stormwater drains shall be cleared, trimmed and grassed in accordance with Clause 9155.
- .18 Culvert pipes shall be spun concrete pipes of the specified diameter having 'ogee' joints and shall comply with Clauses 9034 and 9072.
- .19 The testing of the drainage shall be carried out in accordance with Clauses 9270-9279.

23.00 ROADS AND PARKING AREA

- .01 The Trade Preambles given in Pages "Access Roads 1" to "Access Roads 13" shall apply to the service yard and road.
- .02 Materials generally shall be in accordance with Clauses 9630 to 9655 and 9730 to 9779.
- .03 Workmanship generally shall be in accordance with Clauses 9670 to 9716 and 9800 to 9895.

24.00 FIRE ALARM SYSTEM

1. Fire Alarm Control Panel (FACP)

The main FACP shall perform the following functions:

- 01. Supervise and monitor all Analogue addressable detectors
- 02. Monitor modules connected to the system for normal, trouble and alarm conditions.
- 03. Supervise all initiating signal and notification circuits throughout the facility.
- 04. Detect the activation of any initiating device and the location of the alarm condition.
- 05. Operate all notification appliances and auxiliary devices as programmed.

- o6. Visually and audibly annunciate any trouble, supervisory or alarm condition on operator's terminals and panel display.
- o7. Cause operation of all notification appliances and auxiliary devices as programmed.

The FACP shall provide:

- ❖ Acceptance switch
- ❖ Alarm silence switch.
- ❖ System reset switch.
- ❖ Fire drill/Walk test switch.
- ❖ Lamp test switch.
- ❖ Block Acknowledge
- ❖ Control-By-Time
- ❖ Drift Compensation
- ❖ Pre-alarm Control Panel Indication
- ❖ Periodic Detector Test
- ❖ Trouble Reminder
- ❖ Upload/Download to PC Computer
- ❖ Smoke Detector Maintenance Alert
- ❖ Expandable via network options
- ❖ Patented intelligent sensing technology
- ❖ Backward compatible
- ❖ 150 addresses per loop
- ❖ Produced in accordance with EN54-2, EN54-4.
- ❖ 96 zone capability.
- ❖ 220-240V AC mains power supply.
- ❖ 4 fully monitored siren outputs with a rating of 24V / 0,5A and 6 programmable relays as well as a built in network circuit.
- ❖ Incorporated power supply with a rating of 24V/100W and built-in battery charger for 24V batteries with a capacity of up-to 12Ah.
- ❖ The panels offer an extensive list of adjustments and characteristics for the control of the installed devices and sirens. These parameters can easily be adjusted using a PC based program.
- ❖ Allow Programming of the panel through the PC.
- ❖ Ethernet control capability.
- ❖ Optional Modbus expansion.
- ❖ Optional external printer expansion.
- ❖ Messages can be viewed on the big LCD (320x240 pixels) whereas LEDs shall be used to show basic operations such as alarms, faults and isolated sections
- ❖ The operation shall be done using the built-in 16 key keypad.
- ❖ Incorporated safety lock.
- ❖ Shall include a thermal printer
- ❖ Generate system status reports and recall/print each operation at command of operator.
- ❖ Interrogate each detector and analyze detector response
- ❖ Display and print abnormal deviation without inhibiting the system performance.
- ❖ 'Pre-signal alarm' signal when the detector is at 80% of its alarm threshold.
- ❖ Trigger the Following operations upon activation of any detector, break glass unit or switch, unless otherwise specified:
 - o Activate all programmed notification circuits until silenced.
 - o Activate all audio-visual annunciation devices until reset.

2. ENCLOSURES:

- ❖ The control panels shall be housed in a cabinet suitable for surface or semi-flush mounting. Enclosure shall be corrosion protected, given a rust-resistant prime coat, and manufacturer's standard finish.
- ❖ The back box and door shall be constructed of with provisions for electrical conduit connections into the sides and top.
- ❖ The door shall provide a key lock and shall include a glass or other transparent opening for viewing of all indicators
- ❖ Shall be made of Electrostatically painted steel and ABS

3. POWER SUPPLY:

The Main Power Supply shall operate on 240 VAC, 50 Hz, and shall provide all necessary power for the FACP. The FACP to include internal batteries.

4. BATTERIES

The fire alarm panel shall have inbuilt chargers and batteries housed inside it for loop powered devices. The battery shall have sufficient capacity to power the fire alarm system for not less than seventy-two hours upon a normal AC power failure.

The batteries are to be completely maintenance free, of reputed make.

The fire alarm panel shall have an inbuilt charger to charge the batteries.

The batteries shall be placed inside the FACP with low voltage indication/ battery fault indication in the front of the panel.

5. Fire Detectors

Detectors shall be Analogue, addressable, and shall connect with two wires to the fire alarm control panel Signaling Line Circuits.

Addressable smoke and thermal detectors shall provide alarm and power LED's. Both LED's shall flash under normal conditions, indicating that the detector is operational and in regular communication with the control panel, and both LED's shall be placed into steady illumination by the control panel, indicating that an alarm condition has been detected. If required, the flashing mode operation of the detector LED's shall be optional through the system program.

Smoke detector sensitivity shall be set through the Fire Alarm Control Panel and shall be adjustable in the field through the programming of the system. Sensitivity may be automatically adjusted by the panel on a time-of-day basis.

Using software in the FACP, detectors shall automatically compensate for dust accumulation and other slow environmental changes that may affect their performance.

The detectors shall be listed by UL as meeting the calibrated sensitivity test requirements of NFPA Standard 72, Chapter 7.

The detectors shall be ceiling-mount with sealed sensing chambers and suitable for stable operation in an ambient temperature of 0 to 60°C and against air velocity that may be predetermined. The detectors shall include a separate twist-lock base, which includes a tamper proof feature.

Detectors shall also store an internal identifying type code that the control panel shall use to identify the type of device Ionization, Photoelectric, Thermal: Rated at 60°C and have a rate-of-rise element rated at about 9°C per minute.

6. MANUAL CALL POINT

This shall be for immediate manual activation of fire alarm system by smashing in the glass plate and pressing a push button.

It shall be required to have a protective clear glass cover. These shall also be wired in loop circuits.

General specifications:

- ❖ Max. Operating Voltage 30Vdc
- ❖ Max. Switch Current (to be determined by FACP)
- ❖ Cable Termination 0.5 to 2.5 mm²
- ❖ Resettable
- ❖ Relative Humidity 0 to 95% (non-condensing)
- ❖ Ambient Temperature -10°C to +55°C
- ❖ Have LED flashing to indicate communication with FACP.
- ❖ Steady RED if a fault.

7.VOICE EVACUATION AMPLIFIER

- ❖ System Controller (one per system)
- ❖ Four mic/line inputs and two BGM inputs
- ❖ Provides from 1-6 zones of output at full power
- ❖ Rack mounted
- ❖ Non-emergency front panel volume controls for BGM/Program input
- ❖ Zoned emergency paging from front panel microphone
- ❖ Zoned non-emergency paging using the optional RM-200MPS
- ❖ UL 2572 and UL 864 listed
- ❖ Distortion < 0.7 % (at 1 kHz, rated power)
- ❖ Frequency response 50 Hz - 20 kHz (at 1/3 rated output)

8.CEILING MOUNT SPEAKER

- ❖ 8" in-ceiling speaker for high quality applications
- ❖ 25V & 70V transformer taps up to 5W
- ❖ Fits standard ceiling speaker template (PC-671R & others) perfect for retrofits
- ❖ Unique "monocoque" design provides better structural integrity
- ❖ Meets UL 2572 (UL 1480 UUMW)

9. Microphone

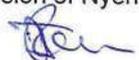
Power Source	24 V DC (Operating range: 14 - 28 V DC) Power input jack: Non-polarity type Usable power input plug(*2): Outer diameter ϕ 5.5 mm ϕ 2.1 mm
Current Consumption	100 mA or less
Audio Output	0 dB(*1)
Distortion	1% or less
Frequency Response	100 - 20
S/N Ratio	60 dB or more
Microphone	Unidirectional electret condenser microphone
No. of Function Keys	13
Emergency Broadcast(*3)	Activation of Emergency Broadcast (pre-recorded announcement or live microphone announcement) by Emergency Broadcast Switch
Volume Control	Microphone volume control
Finish	ABS resin
Dimensions	190 (W) \times 76.5 (H) \times 215 (D) mm (Gooseneck microphone excluded)
Weight	750 g
Option	Wall mounting bracket: WB-RM200

10. Double leaf fire door

- ❖ Upt0 2 hours fire rating
- ❖ Honeycomb core type
- ❖ Cold rolled steel

BILL NO. 1

PRELIMINARY



PROPOSE EXPANSION OF NYERI OFFICE

BILL No. 1		Shs.
PRELIMINARIES		
<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, HR& Administration Kenya Power & Lighting Co. Ltd P.O. Box 30099 - 00101 <u>NAIROBI</u>	
	The "Project Officer " is : The Kenya Power Projects Officer Administration & Property, HR& Administration Kenya Power & Lighting Co. Ltd P.O. Box 30099 - 00101 <u>NAIROBI</u>	
	The "Project Quantity Surveyor" i: The Kenya Power Quantity Surveyor, Administration & Property, HR& Administration Kenya Power & Lighting Co. Ltd P.O. Box 30099 - 00101 <u>NAIROBI</u>	
B	<u>DESCRIPTION OF SITE</u>	
	The site is located Stima house Nyeri along Kamakwa road. All access roads are tarmacked.	
	The Contractor must obtain the Project Manager's approval for the siting of temporary buildings, spoils heaps and directions regarding the use of any materials found on the site.	
	Preliminaries	
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Contractor's officil Rubber Stamp and Signature:..... Prelim/2

Expansion of Nyeri Office

 20/2/26

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A	<p><u>ACCESS TO SITE</u></p> <p>Access to site shall be as directed by the Project Manager. The Contractor shall strictly observe police & NTSA regulations regarding traffic movement.</p>	
B	<p><u>WORKING AND STORAGE SPACE</u></p> <p>Working and storage space will be confined to the area designated by the Project Manager within the plot boundary.</p> <p>The contractor is advised to visit site and ascertain the adequacy of working space . It is notified to the general bidders that the working space shall be restricted and bidders are advised to make an alternative working and storage arrangement so that this does not interfere with Kenya Power & Lighting Company day to day working services to customers and general public.</p>	
C	<p><u>WORKING HOURS</u></p> <p>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 8.00am .or continued after 6.00 p.m . without prior approval of the Project Manager.</p>	
C	<p><u>DESCRIPTION OF THE WORKS</u></p> <p>Works shall generally consist of :-</p> <p>i)Construction of office block</p> <p>ii) Plumbing and drainage</p> <p>iv) Electrical Works</p>	
D	<p><u>APPROVAL OF THE DRAWINGS</u></p> <p>The contractor will facilitate preparation and approval of final set of working drawings in A1 size ; using the attached drawings ; all by a registered Architect & registered Structural Engineer . The contractor shall facilitate approval of the drawings both Architectural and structural by all legal Authorities .</p> <p>The Contractor shall furnish 3 copies of approved drawing in A 1 size within the first three (3) weeks of site take over and before work commences to the Project Manager for his approval or rejection, Such approved drawings 2 copies shall be laminated , filed and kept on site and one copy to project managers office.</p>	
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20/2/2026

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<u>GENERAL MATTERS</u>		
A	<p><u>SUFFICIENCY OF TENDER</u></p> <p>The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his 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.</p>	
B	<p><u>STAMP CHARGES</u></p> <p>The Contractor shall allow for the payment of all Stamp Charges in connection with the Surety and Contract Agreement.</p>	
C	<p><u>DEFINITIONS AND ABBREVIATIONS</u></p> <p>Terms used in these Bills of Quantities shall be interpreted as follows:</p> <p>"Approved" Shall mean approved by the Project Manager.</p> <p>"as directed" Shall mean as directed by the Project Manager.</p> <p>"B.S." Shall mean the current British Standard specifications published by the British Standards Institution, 2 Park Street, London W.1., England.</p> <p>"CM." Shall mean Cubic Metres.</p> <p>"SM." Shall mean Square Metres.</p> <p>"LM." Shall mean Linear Metres.</p> <p>"MM" Shall mean Millimetres.</p> <p>"KG." Shall mean Kilogramme.</p> <p>"NO." Shall mean Number.</p> <p>"M.S" Shall mean Measured Separately</p> <p>PRS or Prs Shall mean Pairs</p> <p>a.b.d Shall mean as before described</p> <p>Ditto or Do Shall mean the whole of the preceding description except as</p> <p>NTSA Shall mean National Transport & Safety Authority</p>	
Preliminaries		Carried to collection

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A	<p><u>PROGRESS SCHEDULE</u></p> <p>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.</p>	
B	<p><u>FIGURED DIMENSIONS</u></p> <p>Figured dimensions are to be followed in preference to dimensions scaled from the 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.</p>	
C	<p><u>PROVISIONAL WORK</u></p> <p>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 Quantity Surveyor.</p> <p>If the Contractor makes default in these respects he shall, if the Project Manager so directs, uncover the work at his own expense to enable the measurements to be taken.</p>	
D	<p><u>EXISTING SERVICES</u></p> <p>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.</p>	
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A	<p><u>TRANSPORT TO AND FROM THE SITE</u></p> <p>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 and / or the National Transport & Safety Authority.</p>	
B	<p><u>PUBLIC AND PRIVATE ROADS, PAVEMENTS, ETC</u></p> <p>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.</p>	
C	<p><u>POLICE REGULATIONS</u></p> <p>The Contractor is to allow for complying with all instructions and regulations of the police Authorities.</p>	
D	<p><u>ENVIRONMENTAL REGULATIONS</u></p> <p>The Contractor shall observe all the requirements of the National Environment Management Authority (NEMA) and especially those conditions given in the Project's Environmental Impact Assessment Report Approval by NEMA. They shall collaborate with the Environmental Impact Assessment (EIA) expert to ensure that , proposed mitigation measures are adhered to during construction phase and where necessary appropriate</p> <p>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 mgr and be acceptable to NEMA officials.The Contractor shall also control dust on site by appropriate watering of the sources of dust.</p> <p>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.</p>	
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A	<p><u>CONTRACTORS' SUPERINTENDENCE</u></p> <p>The Contractor shall constantly keep on the Works a literate English-speaking Agent or Representative, competent, NCA accredited 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.</p> <p>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.</p> <p>Such site superintendent shall have a National Construction Authority's accreditation.</p> <p>Before the Tenderer's offer is accepted the Project Manager may personally interview the Contractor's proposed Representative.</p> <p>A curriculum vitae of past experience and qualifications must be provided for the Project Manager's scrutiny.</p> <p>The Project Manager's decision will be final regarding the suitability of the proposed Representative.</p>	
B	<p><u>WATER</u></p> <p>All water shall be fresh, clean and pure, free from earthy, vegetable or organic mater, acid or alkaline substances in solution or suspension.</p> <p>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.</p>	
C	<p><u>LIGHTING AND POWER</u></p> <p>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.</p>	
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A	<p><u>SAFETY</u></p> <p>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.</p> <p>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 Officer shall be deemed to be Project Manager's Instructions, and shall be complied with promptly without additional cost to the contract.</p> <p>Occupational Safety and Health Act no. 15 of 2007 must also be complied with.</p> <p>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.</p>	
B	<p><u>PROTECTIVE CLOTHING</u></p> <p>The Contractor shall provide all protective or any other special clothing or equipment for his employees that may be necessary.</p> <p>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.</p>	
	<p>Preliminaries</p> <p>Carried to colle</p> <p>KShs.</p>	

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A	<p><u>PROVISIONAL SUMS</u></p> <p>The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A Item A7(i) of the Standard Method of measurements. Such sums are net and no addition shall be made to them for profit.</p>	
B	<p><u>ADJUSTMENT OF PROVISIONAL SUMS</u></p> <p>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 variation clause 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.</p>	
C	<p><u>PRIME COST (OR P.C.) SUMS</u></p> <p>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 A7(ii) of the Standard Method of Measurements.</p> <p>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.</p>	
D	<p><u>ADJUSTMENT OF P.C. SUMS</u></p> <p>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.</p> <p>Items of profit upon P.C. sums shall be adjusted in the final account prorata to the amount paid.</p> <p>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.</p> <p>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.</p>	
	<p>Preliminaries</p> <p style="text-align: right;">Carried to colle</p> <p style="text-align: right;">KShs.</p>	

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		Shs.
A	<p><u>NOMINATED SUB-CONTRACTORS</u></p> <p>When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into subcontracts and shall thereafter be responsible for such sub-contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract Contractor's work concerned in the P.C. Sums under the description "add for Attendance"</p>	
	<p><u>MATERIALS AND WORKMANSHIP</u></p>	
A	<p><u>GENERALLY</u></p> <p>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.</p> <p>All materials and workmanship shall, unless otherwise specified or described, conform to the appropriate British Standard Institution specification current at the date of tender.</p> <p>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.</p> <p>The Contractor shall be responsible for and shall replace or make good at his own expense any materials lost or damaged.</p> <p>The Works throughout shall be executed by skilled workmen well versed in their respective trades.</p>	
B	<p><u>REJECTED WORKMANSHIP OR MATERIALS</u></p> <p>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.</p>	
C	<p><u>PROPRIETARY MATERIALS</u></p> <p>Where proprietary materials are specified herein-after the contractor may propose the use of materials of other manufacturer but equal quality for approval by the Project Manager.</p> <p>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.</p>	
	<p>Preliminaries</p> <p>Carried to colle</p> <p>KShs.</p>	

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A	<p><u>SAMPLES</u></p> <p>The Contractor shall furnish within the first one week 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.</p> <p>The sample of building blocks, concret granules and hardcore shall be of approved crushing strength. 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.</p>	
B	<p><u>CONCRETE TESTS</u></p> <p>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.</p>	
C	<p><u>OTHER MATERIAL TESTS</u></p> <p>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.</p>	
D	<p><u>PROGRAM OF WORKS</u></p> <p>The Contractor shall allow in his programme for the following 11 public holidays per calendar year in Kenya.</p> <ol style="list-style-type: none"> 1. New Year's Day (1st January) 2. Good Friday 3. Easter Monday 4. Labour Day (1st May) 5. Madaraka Day (1st June) 6. Idd Ul Fitr 7. "Utamaduni" Day (10th October) 8. Mashujaa Day (20th October) 9. Jamhuri day (12th December) 10. Christmas Day (25th December) 11. Boxing Day (26th December) <p>The Contractor should also allow per calendar year for a further 2 unspecified public holidays which may be announced by the Government of Kenya with no prior notification.</p>	
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A	<p><u>MINISTRY OF HEALTH REGULATIONS</u></p> <p>The Contractor shall adhere to the interim guidelines and protocols for SARS-CoV 2 and COVID 19 which were developed in response to the new Coronavirus Disease 2019. The adherence to these guidelines shall include any periodical updated guidelines by the said MoH - Kenya.</p> <p><u>TEMPORARY WORKS</u></p>	
B	<p><u>OFFICE AND SHEDS</u></p> <p>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.</p>	
C	<p><u>SANITATION</u></p> <p>The Contractor shall provide the necessary sanitation 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.</p>	
D	<p><u>SECURITY</u></p> <p>The Contractor shall be responsible for the security of the works in every respect and in particular it shall be the Contractor's responsibility to ensure that each of his workers security is guaranteed while working on the site and in such manner as is acceptable by KPLC.</p> <p>The Contractor shall also accept liability for and bear the cost of failure to provide security for the works and workers as per the conditions of this contract once entered into.</p>	
E	<p><u>BILL OF QUANTITIES.</u></p> <p>This is a provisional Bill of Quantities and all works are subject to remeasurement upon completion, parts thereof or omitted in total if not necessary under instructions as shall duly be issued by the Project Manager or Kenya Power representative.</p>	
F	<p><u>ALTERATIONS TO BILLS, PRICING, ETC.</u></p> <p>Any unauthorised alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored. The Contractor shall be deemed to have made allowance in his prices generally to cover any items against which no price has been inserted in the priced Bills of Quantities. All items of measured work shall be priced in detail and the Tenders containing Lump Sums to cover trades or groups of work must be broken down to show the price of each item before they will be accepted.</p>	
<p>Preliminaries</p>		<p>Carried to colle KShs.</p>

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A	<p><u>PLANT, TOOLS AND SCAFFOLDING</u></p> <p>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.</p> <p>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.</p> <p>Such scaffolding shall be constructed of tubular steel or timber of sufficient scantlings and be provided with planked footways and guard-rails to approval.</p> <p>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.</p> <p>Scaffolding is not measured hereinafter, and the Contractor must allow here.</p>	
B	<p><u>EXISTING AND ADJACENT PROPERTY</u></p> <p>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.</p> <p>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.</p> <p>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.</p>	
C	<p><u>LABOUR CAMPS</u></p> <p>No labour camps, 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.</p> <p>The Contractor shall provide, erect and maintain satisfactory housing for the watchmen and shall remove same on completion of the works.</p>	
	<p>Preliminaries</p> <p>Carried to colle</p> <p>KShs.</p>	

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<p>A <u>INSURANCE</u></p> <p>The Contractor shall insure as required in the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the PROJECT MANAGER either by production of an Insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance Clauses have been complied with in all respects. Thereafter the PROJECT MANAGER shall from time to time ascertain that premiums are duly paid up by the Contractor who shall if called upon to do so, produce the receipted premium renewals for the PROJECT MANAGER's inspection.</p>			
<p>B <u>HOARDING</u></p> <p>The contractor shall enclose the site either wholly or in parts with a holding 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.</p>			
<p>C <u>TEMPORARY ROADS</u></p> <p>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.</p>			
<p>D <u>SIGNBOARD</u></p> <p>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 there on.</p> <p>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.</p>			
Preliminaries	Carried to colle	KShs.	

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20/12/2026

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<u>NOMINATED SUB-CONTRACTORS AND SUPPLIERS</u>			
A <u>NOMINATED SUB-CONTRACTORS</u>			
<p>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 works 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.</p> <p>The Contractor shall also accept liability for and bear the cost of General Attendance on Nominated Sub- Contractors which shall be deemed to for:</p> <p>Allowing the use of standing scaffolding, maintenance and alteration of all scaffolding, retention of all scaffolding until such times 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.</p> <p>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.</p> <p>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:</p> <p>Unloading, storing, hoisting, placing in position, providing power, provision of special scaffolding.</p> <p>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.</p> <p>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.</p>			
B <u>NOMINATED SUPPLIERS</u>			
<p>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.</p> <p>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.</p>			
C <u>PRIME COST RATES</u>			
<p>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 net cost per unit will be adjusted within the Final Account.</p>			
Preliminaries	Carried to colle	KShs.	

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		Shs.
<p>A <u>PROTECTION</u></p> <p>The Contractor shall cover up and protect from damage, including damage from inclement weather, all finished work existing power equipment and unfixed materials, including that of 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.</p> <p>B <u>CLEANING</u></p> <p>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.</p> <p>C <u>TRAINING LEVY</u></p> <p>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 than 50,000/- in value and his Tender must include for all costs arising therefrom.</p> <p>D <u>STANDARD LEVY (STANDARDS ACT- CAP 496)</u></p> <p>The Contractor's attention is drawn to legal Notice No. 267 of 2nd June, 1990 which requires payment by the Contractor of the Standards Levy at a rate of 0.2% of the contract sum less allocation for prime cost sums and provisional sums, subject to a ceiling of KShs. 400,000.00 per annum. The Contractor must therefore include for all costs (if any) arising or resulting therefrom.</p> <p>E <u>NATIONAL CONSTRUCTION AUTHORITY LEVY (NCA)</u></p> <p>The contractor shall comply with all necessary National Construction Authority Act requirements including NCA levy. No claims for failure to comply with the NCA act will be entertained.</p> <p>F <u>DEVELOPMENT APPROVALS</u></p> <p>The contractor shall allow for all necessary county government permits & approvals with regard to these works. No claim for failure to comply with county governments requirements shall be entertained.</p> <p>Allow for all necessary permits/approvals by the County Government of Nairobi.</p> <p>G <u>VALUE ADDED TAX</u></p> <p>The Contractor's attention is drawn to the Finance Act 1993 and subsequent amendments thereof which requires payment by the Contractor of Value Added Tax (VAT) on construction services rendered. Whether VAT is added at the grand summary page or inclusive in the rates, The tender sum as stated in the form of tender shall be deemed to be inclusive of VAT.</p> <p>H <u>BILL OF QUANTITIES SITE COPY</u></p> <p>It shall be a requirement under this contract for the contractor to keep a true and complete copy of the unpriced tender document on site at all times. The contractor shall also be expected to keep in his possession a true and complete copy of the priced tender document.</p>	<p>Preliminaries</p> <p>Carried to colle</p> <p>KShs.</p>	

Rev
20/2/2026

COLLECTION

From page No. Prelim/1

" " " Prelim/2

" " " Prelim/3

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TO SUMMARY

AT END OF BILL

PRELIMINARIES

Preliminaries

KSHS.

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20/2/2026

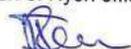
BILL NO. 2

BUILDERS WORKS

Contractor's official Rubber Stamp Signature:.....

BW/1

Expansion of Nyeri office



ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	Element No.1 Substructure <u>Downtakings & demolitions</u>				
A	Carefully demolish metallic loading tower aprox. 10m high composed of I section 250x 150mm, Channel section 150x 80mm and top I beam section 250x 150mm.	1	Item		
B	Allow emptying septic tank and soakaway pit.	1	item		
C	Carefully demolish washroom block measuring 3.2x3.4x2.8mm high composed of concrete roof slab, concrete floor bed, natural machine cut stones, doors, windows, plumbing fittings, substructure, septic tank, soakaway pit, inspection chambers and water tanks handover salvaged materials to client and cart away arising debris.	1	Item		
D	Carefully demolish existing reinforced concrete floor bed cart away all arising debris.	14	sm		
E	Carefully remove concrete paving blocks surface include road kerb and concrete chanel and handover to client and cartaway arising debris. <u>Over-site excavations: 100-200mm Depth, load and deposit as instructed by the project manager.</u>	13	sm		
F	Clear site including removal of vegetation all grass, weeds, small trees, rubbish etc. and grub up all roots or similar obstructions and cart away all the arising debris to approved dumpsites.	42	sm		
G	Cut down the avocado tree av. Girth 400-600mm including uprooting trump, cutting into approved sizes and handing over to client for safe custody.	1	No		
H	Remove top soil average 150 mm; load and cart away.	1050	sm		
J	Excavate in normal soil to reduce level depth not exceeding 1.5m (mechanical).	1575	cm		
K	Excavate in normal soil to a level of 1.5-3.0m deep (mechanical).	1575	cm		
L	Excavate for strip footing trenches from reduced level n.e. 1.5 m deep	360	cm		
M	Ditto over 1.5-3.0 meters deep but not exceeding 3.0meters deep.	360	cm		
N	Level bottom of foundations to receive blinding.	143	sm		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	Excavate for Column pits and Sump 0-1.5 mm.	175	cm		
B	Ditto column pits and sump 1.5-3.0 mm.	117	cm		
C	Extra-over all excavation for excavating rock irrespective of class.	120	cm		
D	Level bottom of column pit to receive blinding.	80	sm		
E	Return, fill-in and rum selected imported materials around foundations.	1146	cm		
F	Remove and cart away surplus excavated materials.	2675	cm		
	<u>Diposal of water</u>				
G	Keeping all excavations free from all water including spring or running water.	1	Item		
	<u>Planking and strutting</u>				
H	Uphold the sides of all excavations.	1	Item		
	<u>Filling</u>				
J	Hardcore filling in making up levels, hand packed, 300mm thick in layers of 150mm maximum thickness.	205	cm		
K	50mm (average) thick quarry dust blinding to surfaces of hardcore.	626	sm		
	<u>Antitermite treatment</u>				
L	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	626	sm		
	<u>Concrete works.</u>				
	<u>Plain concrete (1:3:6) in :-</u>				
M	50mm thick blinding under foundations and bases.	223	sm		
	<u>In situ vibrated reinforced concrete class 25(20mm agregate) 1:1.5:3 to;</u>				
N	Column	38	cm		
P	400mm thick Column bases	42	cm		
Q	300mm thick Strip footing.	48	cm		
R	200mm thick VRC class 25 with waterproofing admixture Integral liquid water proofing compound as Pidiproof LW+ or equivalent and approved mix ratio 1litre water proofing compount :5bags cement (1:5) basement slab bed with and include approved temperer finish.	90	cm		
S	Ditto Sump bed, walling and suspended slab	3	cm		
T	Ditto retaining wall	29	cm		
U	200mm thick lift shaft	7	cm		
V	150mm thick for bed	22	cm		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Reinforcement</u>				
	<u>Bars; high yield steel ribed bars ; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks</u>				
A	8mm diameter.	2200	kg		
B	10mm diameter.	17400	kg		
C	12mm diameter.	4305	kg		
D	16mm diameter.	12000	kg		
	<u>Fabric mesh; B.S. 4483</u>				
E	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;double layer.	626	sm		
	<u>Expansion joints.</u>				
F	10mm thick approved filler between wall, floor & columns surfaces.	156	sm		
	<u>Sawn formwork to insitu concrete as described to:-</u>				
G	Column bases	78	sm		
H	Vertical columns and sump	179	sm		
J	Sides of lift shaft	83	sm		
K	Sides of strip footings	175	sm		
L	Edges of basement floor slabs; 150 to 300mm wide	146	lm		
	<u>Foundation Walling.</u>				
	<u>Rough dressed squared natural stone walling in cement sand(1:4) mortar;</u>				
M	200 mm thick reinforced with hoop iron at alternate courses	365	sm		
	<u>Damp proofing</u>				
N	Polythene sheet; 1000 gauge, 200mm welted laps (no allowance made to laps), horizontal; 1 no. layer laid on compacted quarry dust blinding	626	sm		
P	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	68	lm		
	<i>Carried to Collection</i>				-

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	Foundation Walling.				
	Insitu Finishings				
	Plinths				
A	12mm thick 2 No. coatwork cement sand (1:4) render; wood floated to concrete or blockwork base to walls; external	55	sm		
B	Prepare and apply three coats black bituminous paint to rendered plinths externally.	55	sm		
	Waterproofing of Basement.				
C	30mm Waterproof cement sand plaster (1.3) admixed with 200mm ml liquid waterproofing agent per bag of cement applied to basement walls externally below ground level.	145	sm		
D	Ditto to sump walls	9	sm		
E	Prepare and apply appropriate basement waterproofing sealant or membrane to approval	145	sm		
F	Install drainage board to waterproofed surfaces to further prevent water ingress from retained soil masses.	145	sm		
	Precast concrete				
G	200mm thick murrum compacted to form paving base.	242	sm		
H	Excavate and lay 600x600x50mm pcc paving slabs on murrum bed(m/s) including jointing and pointing in cement sand mortar mix (1:4) all round the building.	242	sm		
J	125x100mm concrete channels as restrantant block to PCC, rate including 150mm haunching	114	lm		
	<i>Carried to Collection</i>				
	COLLECTION				
	Brought forward from page 2				
	Brought forward from page 3				
	Brought forward from page 4				
	Brought forward from page Above				
	TOTAL FOR ELEMENT NO.1 SUBSTRUCTURE CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	Element No.2 RC SUPERSTRUCTURE				
	<u>In situ vibrated reinforced concrete class 25(20mm aggregate) 1:1.5:3 to;</u>				
A	Beams	160	cm		
B	Columns	62	cm		
C	Staircases	9	cm		
D	150mm Landings	19	sm		
E	Lift walling ; 200mm thick	32	cm		
F	Gutters conc. 150mm thick	0	sm		
G	150mm thick suspended slab including overhangs twice throated standard	1373	sm		
H	Ditto; to ramps slope ditto	37	sm		
	<u>Reinforcement</u>				
	<u>High yield mild steel ribbed bars including cutting, bending, spacers, tying wire and fixing; to KS 573:2014 in:-</u>				
J	8mm diameter.	3311	kg		
K	10mm diameter.	33000	kg		
L	12mm diameter.	27000	kg		
M	16mm diameter.	27000	kg		
	<u>Sawn formwork to insitu concrete as described to:-</u>				
N	To sides and soffits beams	451	sm		
P	To sides of Columns	305	sm		
Q	Soffits of suspended floor slab	1373	sm		
R	Soffits of sloping suspended ramps	25	sm		
S	Soffits of landings	23	sm		
T	Sloping soffits of staircases	33	sm		
U	Edges of staircase waistes over 150mm but not exceeding 225mm high.	33	lm		
V	Ditto staircase landing 150-225mm high.	12	lm		
W	Edges of risers over 75mm but not exceeding 150mm high.	86	lm		
	Carried to Collection				

Contractor's official Rubber Stamp Signature:.....

BW/6

Expansion of Nyeri office

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20/2/2026

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	Raking string edge to staircases 300mm high (extreme) cut and fitted to profile of treads and risers	28	lm		
B	Sides to Concrete gutters girth over 300mm	0	sm		
C	Extra over for creation of gutters outlets av 250x250mm all to details.	0	no		
D	Extra over for creating gutters overflow outlets size 400x250mm.	6	No.		
	<u>Mastic asphalt roofing to comply with BS 8128:1998; in two coats on and including black sheeting felt to;</u>				
E	Screeded gutter bottoms and sides finished with aluminium bituminous paint.	0	sm		
	<i>Carried to Collection</i>				
	<u>COLLECTION</u>				
	Brought forward from page 6				
	Brought forward from page above.				
	TOTAL FOR ELEMENT NO.2 RC SUPERSTRUCTURE CARRIED TO SUMMARY				

Contractor's official Rubber Stamp Signature:.....

BW/7

Expansion of Nyeri office

Ken
20/2/2026

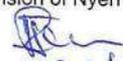
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Element No.3 WALLING</u>				
	<u>Machine cut stone walling in cement and sand mortar(1:3) reinforced with and including 25mm wide x 5mm gauge hoop iron at alternate courses with minimum crushing strength of 7.0N/mm².</u>				
A	WINDOW CILL; 250 x 50 mm extreme 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	84	lm		
	<u>NATURAL STONE WALLING</u>				
	<u>Machine cut stone walling in cement and sand mortar(1:3) reinforced with and including 25mm wide x 5mm gauge hoop iron at alternate courses with minimum crushing strength of 7.0N/mm².</u>				
B	200mm thick walling.	1006	sm		
C	150 mm thick; ditto	237	sm		
D	Extra over horizontal recessed and flush vertical pointing in averaging 19mm Square tube rod in cement and sand (1:3) mortar; one coat of bituminous paint.	1006	sm		
E	300x200x200mm thick Precast concrete louvre block walling; bedding, jointing and pointing in cement sand (1:3) mortar. rate to include supply & fixing approved guze wire	6	sm		
TOTAL FOR ELEMENT NO.3 WALLING CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Element No.4 ROOFING CONSTRUCTION, COVERING AND RAIN WATER DISPOSAL</u>				
	<u>Roof covering.</u>				
	<u>ITS profile box sheets; 28 gauge; prepainted</u>				
A	Supply and fix sheets to an approved standard colour laid with 94mm side laps and 150mm minimum end lap fixed to Z purlins including hook bolts, washers, nuts and rubber caps at 600mm centers. and screwed to 177x50.8 mm Z purlins (m/s) on RHS trusses (m/s) at 1200mm c/c all laid to fall at 17.50 degrees	976	sm		
	<u>Accessories, fixing as necessary to roof sheets</u>				
B	300mm dia. Half round ridge sheet	104	lm		
	<u>Steel Structure Trusses</u>				
	<u>The following in RHS 100x50x4thick trusses, welded connections, to detail; hoisting approx. 6.2m above ground including preparation, applying 2coats of primer and 2coats gloss paint to all steel work. framed structure</u>				
C	100 x 45x3 mm rafters	312	lm		
D	50x50x3mmx4.42kg/m strut & ties	4275	kgs		
E	100 x 45x3 tie beam	967	lm		
F	25x25x2mm thick mild steel fascia framing infilled with 25x25x2mm thick mild steel at 600mm c/c horizontal .	150	lm		
	<u>The following in steel work unframed structure</u>				
G	100 x 50x4mmx12.06kg/m rafters	6320	kgs		
H	75x75x3mmx6.78kg/m SHS diagonal bracings.	529	kgs		
J	139.7x50.8x2.0mm Z purlin bolted to 100x100x6mm cleats.(M.S)(6.4m/kg)	3842	kg		
K	100x100x4mm rafters angle cleats. to details.	360	No.		
L	50 x50 x 2mmx3.01kg/m Fascia frame welded to purlin	314	kgs		
M	300x300x15mm base plate	34	No.		
N	Diameter 19mm bolt with a flat washer nut diameter 250mm.	92	No.		
P	100x100x8mm anchor plate	92	No.		
Q	400mm wide x 2mm thick mild steel plate	304	lm		
R	12mm dia. sag rods each complete with nuts and washers.	316	lm		
T	Ditto but 12x350mm long for apex purlins	10	No		
	<i>Carried to Collection</i>				

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20/2/2026

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Labour and material (Provisional)</u>				
A	100x100x4mm purlin cleats welded to rafters.	204	No		
B	Drill holes for 12mm diameter bolts in both purlins & cleats.	980	No		
C	Diameter 12x 35mm long bolts complete with nuts and washers.	980	No		
D	Ditto but 12x500mm long for apex purlins	8	No		
	<u>Rain water goods</u>				
	<u>Heavy gauge click fit plastic water goods including all labours.</u>				
E	180mm dia. Half round plastic gutter - heavy gauge enchased in to the VRC columns.	129	Im		
F	Extra over for click fit stopped ends.	8	No		
G	Ditto gutter joint union	60	No		
H	180mm dia. Gutter support brackets fixed to 25x25x2mm thick mild steel brackets MS. at 600mm c/c	61	No		
J	180x110mm click fit stop end with running outlet	8	No		
K	Ditto running outlet	8	No		
	<u>Down pipe</u>				
L	110mm dia. Down pipe	48	Im		
M	Ditto shoe bend	8	No		
N	Ditto Down pipe bend- swan neck.	8	No		
P	Purpose made box gutter 200-416mm girth x 2.5mm thick gutter <u>Hertalan EPDM rubber sheeting or other equal and approved, laid in accordance with manufacturer's instructions to:-</u>	18	Im		
Q	Screeded roof laid to falls not exceeding 15 degrees from horizontal.	164	sm		
R	Bottom and sides of gutter.	0	sm		
S	Ditto for shoe.	10	No.		
	<i>Carried to Collection</i>				
	<u>COLLECTION</u>				
	From page 9				
	From page Above				
	TOTAL FOR BILL ELEMENT NO 4 ROOFING CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Element No.5 DOORS</u>				
	<u>ALUMINIUM DOORS</u>				
A	Supply and fix metal composite aluminium framed double door 1800x2500mm, 6mm thick clear toughened glass complete with beadings complete with 3 pairs of 100mm aluminium hinges, cylinder lock with furniture, two pairs 19mm diameter x 600mm high stainless steel door handles back to back MS, all as per architect's details; size 2400 x 2400mm high.	2	No		
B	Ditto size 1500 x 2400mm high.	2	no		
	<u>METAL WORK - DOOR -PURPOSE MADE UNITS</u>				
	Fire Exit door				
	Fire exit steel door with following specifications:				
	<u>Finish: Powder coated red, Sheet thickness: 2mm / G. 14 door leaf, Core Infill: fire rated composite materials for insulation, Frame : Matching steel frame with intumescent seals plugged to concrete or block work, Hardware: Panicbars (push/pull), panic locks as mortise lock, kick plates, door closer and smoke seals.</u>				
C	Fire exit steel door Single leaf; 900 x 2100mm high; complete and including ditto.	2	No.		
	<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 25 x 3mm thick SHS stiles, transoms and mullions at 300mm centres both sides, angles cut, mitred and welded; G. 14 panel sheet infilled, and with fixed head light glazing 6mm thick clear glass 300 wide (MS), one coat manufacturer's primer, complete with all necessary ironmongery; all welding ground to smooth finish</u>				
D	900x2400 mm Door complete with 300mm wide fixed head light and ironmongery,	1	No		
E	1200x2400 mm double leaf doo ditto.	1	No.		
	<u>TIMBER DOORS</u>				
	<u>Wrot hardwood framed frames and framings</u>				
F	150 x 50 mm; 4 No. labours; plugged door frame	146	lm		
G	50 x 25mm architraves with 4 No. labours	146	lm		
H	25 x 25mm quadrants with 3 No. labours	146	lm		
	<u>flush door</u>				
	<u>45-50 mm thick solid core flush doors to B.S 459: part 2 veneered on both sides with internal quality plywood and lipped on all edges in approved hardwood</u>				
J	Door size 800- 900 x 2100 mm high	28	No		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Iron mongery</u> <u>Supply and fix the following to UNION catalogue or other equal and approved</u>				
	<i>To softwood, hardwood or the like fixing with screws</i>				
A	Three lever mortice lock complete with set lever Brass handle furniture	14	No		
B	Two lever mortice lock (keyless) complete with set lever Brass handle furniture for washroom	14	No		
C	100mm steel brass butt hinges	78	prs		
D	Ditto duoble swing spring hinges - Heavy duty	6	Prs		
E	Pull handle back to back 19mm diax 225mm stainless steel	8	No		
	<i>To concrete or blockwork; fixing with bolts; plugging</i>				
F	Rubber door stop complete with 38 mm rawl bolt	70	No.		
	<u>PAINT TO DOORS</u>				
	<u>On wood</u>				
	<u>Aluminium primer or other equal and approved wood primer before fixing: -</u>				
G	Backs of frame, board, etc over 100mm but not exceeding 200mm girth	146	lm		
	<u>Knot, prime and stop; prepare and apply one undercoat and three coats polyurethane varnish</u>				
H	General surfaces of timber doors over 300mm girth;both external and external.	114	sm		
J	Frames; over 100mm but not exceeding 200mm girth; internal	146	lm		
	<u>On metal</u>				
	<u>Prepare and apply one primer and three coats oil paint full gloss to Crown Solo or other equal and approved to:</u>				
	<u>=</u>				
K	Backs of frame, over 100mm but not exceeding 200mm girth	16	lm		
L	General door surfaces; over 300mm girth internal	5	sm		
M	General door surfaces; over 300mm girth external	5	sm		
	<i>Carried to Collection</i>				
	<u>COLLECTION</u>				
	From page 11				
	From above				
	TOTAL FOR ELEMENT NO. 5 DOORS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<p>Element No.6 WINDOWS</p> <p><u>The following for Mild steel windows.The contractor shall provide shop drawings to the architect for approval before fabrication. All metal works to be of Gauge 16.</u></p> <p><u>METAL WORK PURPOSE - MADE UNITS</u> <u>mild steel casement windows; standard metal section from approved manufacturer complete with frames, transomes, mullions, hinges, stays, fasteners, permanent ventilators comprising 16 gauge (1.5mm thick) sheet metal hood 50mm high x 50mm projection to full width of window, all welding ground to smooth finish etc assembled and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement sand mortar(1:3) including priming with red oxide one coat (Grill and glazing excluded).</u></p> <p>Steel; for glazing with putty, lugs to two jambs, cutting and pinning to concrete or blockwork, fixing to head and sill with screws; plugging</p>				
A	Window, overall size 3000 x 1600mm high; with two side hang lights , four fixed headlight to detail.	30	No		
B	Ditto ; 1200x600mm high with two top hang light and one fixed light	2	No		
C	Ditto; 600x600mm high; ditto	14	No		
	<u>Mild steel burglarproofing grills to Windows</u>				
D	Mild steel burglarproofing grille framed with 50x50x2mm SHS sections infilled with 25x25x1.6mm thick SHS grill work as per architectural details (Kenya power corporate grill work) including assembly , fixing to opening cutting and pinning lugs to concrete or block work and bedding frame in cement and sand mortar (1:4)all primed with red oxide.	200	sm		
	<u>Sump cover</u>				
E	600x600mm sump cover complete 50x50x6mm fixed galvernized Angle sections frames, 40x40x6mm galvernized Angle sections framed casement, 40x6mmgalvanized flat bar infill at 80mm c/c including assembly , fixing to opening cutting and pinning lugs to concrete or block work and bedding frame in cement and sand mortar (1:4)all primed with red oxide.				
	<u>Glazing</u>				
F	5mm Thick clear sheet glass panes over 0.1 but not exceeding 0.5 square meters; fixing with putty	196	sm		
G	Ditto; obscure	5	sm		
TOTAL FOR ELEMENT NO.6 WINDOWS CARRIED TO SUMMARY					

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20/2/2026

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	Element No.7 FINISHES.				
	Wall finishes				
	<u>walls plastering</u>				
	<u>Plaster; 12mm thick 2No. coatwork, 9mm first coat of cement sand (1:4); 3mm second coat of cement and lime putty (1:10); steel trowelled to concrete or blockwork base generally to: -</u>				
A	Walls, column, beams; External	1015	sm		
	<u>Plaster; 12mm thick 2 No. coatwork, 9mm first coat of cement sand (1:4); 3mm second coat of cement and lime putty (1:10); steel trowelled to concrete or blockwork base generally to: -</u>				
B	Walls, internal wall Tilling	860	sm		
	<u>First quality coloured tiles.</u>				
	<u>Approved ceramic tiles to B.S. 1281; local; coloured glazed wall tiles to regular or approved other pattern; bedding and jointing in cement sand (1:3) mortar, grouting with approved cement</u>				
C	8mm thick tiles; butt joints straight both ways; to cement sand base (m/s) to walls internal	470	sm		
D	Plastic edging (Provisional)	180	lm		
	Rendering to tiles surfaces				
	<u>Beds or Backings</u>				
	<u>Render; cement and sand (1:3)</u>				
E	14mm thick one coat backings; wood floated to receive tiles (m/s) to concrete or blockwork base; to walls internal	470	sm		
	Painting and decorations				
	<u>Prepare, skim and apply one undercoat and two coats of silk vinyl paint to the following surfaces</u>				
F	Plastered surfaces; internal	860	sm		
	<u>Cementitious texture finish</u>				
G	Prepare and apply cementitious texture finish inbuilt color 3 mm-thick coats of wall master externally.	1015	sm		
	<u>Prepare and apply one zinc plumbate primer and two coats of 'CROWN SOLO' or other equal and approved super gloss oil paint to:-</u>				
H	Plastered surfaces; internal (wet areas)	34	sm		
J	Ditto metallic surfaces	13	sm		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Floor Finishes</u>				
	<u>Floor Tilling</u>				
	<u>Beds or Backings</u>				
	<u>Screed; cement and sand (1:4)</u>				
A	24mm thick one coat backings; wood floated to receive floor tiles (m/s) to concrete or base; to floors level; internal	1220	sm		
	<u>Tile, Slab or Block Finishings</u>				
B	9- 10mm thick ceramic floor tiles (local); butt joints both ways;including boarder tiles to cement sand base (m/s); to floors level; internal	1220	sm		
C	100 mm high skirting; straight junction with wall and floor finish.	168	lm		
	<u>Terrazzo floor-Roof top staircases</u>				
	<u>Terrazzo paving</u>				
	<u>In-situ polished Terrazzo floor including slips as described in:-</u>				
D	38mm thick (24mm C+S backing and 15mm thick polished terrazzo layer) in bays n.e 1.2sq.m.	383	sm		
E	Ditto for ramp slop including 25mm wide non slip cabarandum at 200mm c/c to approval.	24	sm		
F	20x100mm skirting finished with rounded to edge and curved junction with floor finish.	78	lm		
G	32x3mm. thick plastic or equal and approved dividing strips set in terrazzo.	420	lm		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Ceiling & Soffits Finishes</u>				
	<u>Plastering to Soffits</u> <u>12mm (minimum) two-coat plaster; 9mm first coat of cement sand (1:4), 3mm second coat of cement and lime putty (1:1:6); steel trowelled to: -</u>				
A	Soffits of concrete surfaces	1404	sm		
	<u>Painting and Decorations to soffits</u> <u>On steel trowelled plastered surfaces</u> <u>Prepare,skim and apply one coat of undercoat and two coats of silk vinyl paint to the following surfaces</u>				
B	Soffits of concrete surfaces	1404	sm		
	<u>Ceillings boards</u>				
	<u>Branding</u> <u>Supply and fix 50x50mm sawn cypres timber branding both ways at 600 c/c to damaged areas ceilings areas.</u>				
C	50 x 50mm branding	227	lm		
D	50 x 50mm ditto; plugged	227	lm		
E	Supply and fix 9mm chip board ceiling board in V shaped joints	122	sm		
F	50x25 wrot cypress prime grade cornice or eaqual and approved	86	lm		
	<u>Prepare, apply one undercoat and two coats of Emulsion paint to the following surfaces</u>				
G	Chipboard ceilings	122	sm		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Staircase finishes</u>				
	<u>12mm (minimum) two-coat plaster; 9mm first coat of cement sand (1:4), 3mm second coat of cement and lime putty (1:1:6); steel trowelled to: -</u>				
A	Sloping soffits of staircases	48	sm		
B	Soffits of landings	24	sm		
	<u>Terrazzo paving</u>				
	<u>In-situ polished Terrazzo floor including slops as described in:-</u>				
C	38mm thick (24mm C+S backing and 15mm thick polished terrazzo layer) in bays n.e 1.2sm. to landings and .	24	sm		
D	Treads:- 300mm wide	46	sm		
E	150mm risers	135	lm		
F	100 x 20mm Thick skirting to the profile of risers and treads	110	lm		
G	32x3mm. thick plastic or equal and approved dividing strips set in terrazzo in bays n.e 1.2 sm.	40	lm		
H	25mm wide non slip caborandum	110	lm		
	<u>Prepare,skim and apply one undercoat and two coats first grade plastic emulsion paint to:</u>				
J	Plastered sloping concrete soffites of staircases	48	sm		
K	Ditto landings	24	sm		
	<u>Mild steel balustades & Railings balustrading.</u>				
	Staircase Balustrading: Supply and fix 900mm high balustrading fabricated from Mild steel sections 2mm thick; comprising of of approved hardwood 100 mm x 50mm thick molded handrail fixed appropriately to 50x4mm Mild steel flat bar fixed to 50x50x 2mm thick SHS mild steel vertical balusters spaced at approximately 1000mm centers; 30X30mm. x2mm thick mild steel bottom rail, infilled with 25x25mm x 2mm thick mildsteel SHS at 150mm centers fixed to top and bottom rails in partens approved by the project manager . All necessary welding and grinding welds smooth including two coats of metal primer.	38	lm		
M	Wall mounted Single bar 100x50mm approved hardwood handrail end domed including approved brackets and plates at 1000mm centers maxmum.	110	lm		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Ramp and exterior Staircase Balustrading:</u>				
A	Supply and fix 900mm high balustrading fabricated from stainless steel sections 2mm thick; comprising of 50mm dia x 2mm thick stainless steel handrail complete with domed end caps fixed appropriately to 50mm diameter x 2mm thick stainless steel vertical balusters spaced at approximately 1000mm centers; 25mm dia. x 2mm thick stainless steel rails 6No infill at 150mm centers fixed to vertical balusters all necessary welding and grinding welds smooth, complete with matching accessories including brackets, baseplates / base covers, Elbow and connectors, end caps etc.	53	lm		
B	Wall mounted Single bar 50mm dia x 2mm handrail end domed and capped including approved brackets and plates at 1000mm centers maximum.	53	lm		
	Sundry <u>Mortise and build into wall/floor slab with c/s 1:3 mix including making good</u>				
C	100mm dia x 4mm thick mild steel tube baluster pillars approx 1500mm overall length and 900mm high above ground level ..	25	No		
	<u>Painting and decoration</u> <u>Prepare and apply one metal primer and three coats oil paint full gloss to Crown Solo or other equal and approved to: -</u>				
F	Metal baluster pillars, over 300mm girth	12	sm		
D	Metal Rails and belustrades, over 100mm but not exceeding 200mm girth	500	lm		
	<u>Knot, prime and stop; prepare and apply one undercoat and three coats polyurethane varnish to:</u>				
E	Wooden handrail; over 100mm but not exceeding 200mm girth; internal	148	lm		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT		
	JOINNERY & FITTINGS				
	KITCHEN				
	Plinth				
A	1:3:6 mass concrete concrete as described in 100mm thick high plinth in kitchen.	6	sm		
B	VRC class(25/20)mix 1:1.5:3 as described in 100mm thick kitchen worktops	6	sm		
C	25mm cement sand (1:4) screed trowelled hard and smooth and finished with cement grout as described in Surface finish to surface of plinth	6	sm		
D	25mm thick c/s(1:3) backing to recive granitto tiles (m/s)	10	sm		
	work tops				
	<u>Approved granite floor tiles to regular or other approved pattern; bedding and jointing in cement sand (1:4) mortar; grouting with matching cement</u>				
E	600x18 mm thick local granite top half bullnosed edge including 120mm high back splash and fascia on 25mm thick c/s (1:3) backing fixed with approved granite	10	lm		
F	Extra over for forming sinks / basin hole	2	No		
	<u>Cabinets</u>				
	<u>Kitchen cabinet carcass - produced from 18mm thick block boards, veneered on both sides with mahogany veneer and hardwood lipped on all edges, 50x50mm wrot hardwood (Mahogany) timber bearers and standard furniture fittings including malpha hinges, 100mm D handle brass coated, 100mm tower bolt brass coated heavy gauge, Cabinet lock with Keys and screws as SDTC tech or equiverlent (including installation , excluding counter tops and appliances).</u>				
F	Base Unit 720x 575x 5000mm (HxDxL) block boards, veneered on both sides with mahogany veneer frontal with carcass excluding plinth.	10	lm		
G	High level Wall unit 2400x 600x450mm (LxHxD) ditto at 1800mm above floor level	10	lm		
	Kitchen sink				
H	Supply and fix Heavy gauge single bowl, single drainer stainless steel kitchen sink including all necessary accessories.	2	No		
Carried to Collection					

ITEM	DESCRIPTION	K.SHS
	<u>SUMMARY</u>	<u>PAGE</u>
1	Element No.1 Substructure brought forward from page 5.	
2	Element No.2 RC Superstructure brought forward from page 7	
3	Element No.3 Walling and Partitions brought forward from page 8.	
4	Element No.4 Roofing,Covering & Rain Water Goods brought forward from page 10.	
5	Element No.5 Doors brought forward from page 12	
6	Element No.6 Windows and Curtain Walling brought forward from page 13.	
7	Element No.7 Finishes brought forward from page 20.	
TOTAL CARRIED TO GRAND SUMMARY		-

Contractor's official Rubber Stamp Signature:.....

BW/21

Expansion of Nyeri office

Pen
20/2/2026

BILL NO. 3

**INTERAL PLUMBING & EXTERNAL FOUL
DRAINAGE WORKS**

Contractor's official rubber stamp and Signature

PB.W/1

Expansion of Nyeri office


20/2/2020

BILL NO. 3

INTERNAL PLUMBING & EXTERNAL FOUL DRAINAGE WORKS

ALL PROVISIONAL : THE WORKS ARE SUBJECT TO REMEASUREMENT UPON COMPLETION.

This Bill No. shall be priced and filled by eligible Main contractor's specialized subcontractor or the Main contractor if eligible for these specialist installations. The rates for this bill number shall be deemed to be inclusive of all preliminary requirements by the specialized contractor. The domestic subcontractor must meet the minimum qualification requirements for specialized subcontractors contained in the Evaluation Criteria and must duly fill the summary page for this bill No.3

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>PLUMBING, FIXTURES & FITTINGS</u>				
	<u>WASH ROOMS</u>				
	<u>The following in plumbing work supply fix PPR PN20 pipes for main water supply connect from main line as directed on site including all the necessary fitting, valves, excavation, backfilling, concrete encasement and any other accessories.</u>				
	<u>PPR Pipes PN20 cold water system including cutting for small pipes and fitting.</u>				
A	50mm	30	lm		
B	Ditto but 32mm	12	lm		
C	Ditto but 25mm	50	lm		
D	Ditto but 20mm	84	lm		
	<u>Extra over</u>				
	<u>Plain Bends and elbows</u>				
E	50mm diameter bend /elbows	1	No		
F	Ditto but 32mm	1	No		
G	Ditto but 25mm	16	No		
H	Ditto but 20mm	23	No		
	<u>Threaded elbows</u>				
I	50x32 diameter bend /elbows	5	No		
K	Ditto but 32x25mm	16	No		
L	Ditto but 25x20mm	23	No		
	<u>Plain Sockets</u>				
M	20mm dia. PPR socket	30	No		
N	25mm dia. ditto	25	No		
P	32mm ditto	10	No		
Q	50mm Ditto	2	No		

Contractor's official rubber stamp and Signature

PB.W/2

Expansion of Nyeri office

Ren
20/2/2026

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Plain Tees</u>				
A	50mm equal tee	5	No		
B	Ditto but 32mm	10	No		
C	Ditto but 25mm	12	No		
D	Ditto but 20mm	23	No		
	<u>T- adoptors</u>				
E	50x32mm diameter PPR T- Adoptor.	2	No		
F	32x25mm ditto	16	No		
G	25x20 mm ditto	23	No		
	<u>Sockets</u>				
H	50mm diameter sockets	1	No		
J	Ditto but 32mm	1	No		
K	Ditto but 25mm	22	No		
L	Ditto but 20mm	23	No		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>PLUMBING, FIXTURES & FITTINGS CONTINUATION.....</u>				
	<u>Unions</u>				
A	50mm diameter Unions	1	No		
B	Ditto but 32mm	1	No		
C	Ditto but 25mm	12	No		
D	Ditto but 20mm	23	No		
	<u>Gate valves</u>				
E	25mm diameter approved medium pressure screw down full way gate valve, with wheel and head joints to steel tubing. The gate valve to be as PEGLER or approved	4	No		
F	50mm diameter gate valve	1	No		
G	Ditto but 32mm	1	No		
J	Ditto but 20mm	23	No		
	<u>Ball valve</u>				
K	25mm diameter ball valve with plastic float	2	No		
	<u>Flexible connections</u>				
L	15mm diameter 450mm long flexible connector including jointing to steel tubing.	22	No		
M	Angle valve chromium plated brass angle valve, hot or cold 15mm male iron x15mm male iron including connection to the flexible tubing and arabic showers MS.	14	No		
N	Arabic Shower as bidet round chrome plated handshower with; 30mm dia. shower head, 1200mm stainless steel hose, wall brackets and screws, push button switch, hose connection: 12mm dia. Threaded female connection.	14	No		
	<u>Internal drainage.</u>				
	<u>All drainage pipes to be upvc as 'CaradonTerrain Products' or equal and approved.</u>				
	<u>Upvc and muPvc pipework.</u>				
P	Ditto but 32mm	12	lm		
Q	Ditto but 25mm	12	lm		
R	Ditto but 20mm	23	lm		
T	160mm heavy duty golden brown pipe class D	115	lm		
U	100mm heavy duty golden brown pipe class D	115	lm		
U	40mm- ditto-	60	lm		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>PLUMBING, FIXTURES & FITTINGS CONTINUATION.....</u>				
	<u>Extra over Upvc pipe work for; sweep Bends</u>				
A	Ditto but 32mm	15	No		
B	Ditto but 40mm	12	No		
C	Ditto but 50mm	23	No		
D	110mm diameter access cap	4	No		
E	160mm diameter access cap	8	No		
	<u>Extra over Upvc pipe work for; Bends swept 45</u>				
F	Ditto but 32mm	15	No		
G	Ditto but 40mm	12	No		
H	Ditto but 50mm	23	No		
J	100mm diameter cap	4	No		
K	40mm diameter cap	8	No		
	<u>Boss connectors</u>				
L	100mmx40mm diameter boss connector	6	No		
	<u>Single branches</u>				
M	50mm diameter bend /elbows	64	No		
H	Ditto but 32mm	15	No		
J	100mm dia. Single branch	2	No		
P	40mm dia. -ditto-	6	No		
	<u>W.C connectors</u>				
Q	100mm dia. W.c connectors	14	No		
R	100mm diameter floor trap and grating	15	No		
S	100mm diameter vent cowl	1	No		
T	100mm diameter weathering slate	1	No		
U	100mm dia. Weathering apron	1	No		
W	100mm diameter access cap fitted with screw cap and washer.	5	No		
X	100mm diameter gully trap complete with cover.	5	No		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<p>PLUMBING, FIXTURES & FITTINGS CONTINUATION.....</p> <p><u>Sanitary fittings</u> Supply, deliver, install, test and commission the following sanitary appliances complete with all the accessories including all</p> <p>(i) All sanitary fittings shall be in approved colour.</p> <p>(ii) The Model and Ref No. indicated is only a guide to the type and quality of fittings.</p> <p>(iii) Equivalent and Approved models may be acceptable.</p> <p>Water closet (wc) suite</p> <p>Wheel chair accessible W.C facility Comprising of the following:-</p> <p>i) European W.C with 7.5 litre ceramic cistern with bottom inlet and overflow. The bowl shall be of size 375x560x420mm high. The bowl and cistern shall be manufactured from vitreous china complying with B.S 3402 .The unit shall be complete with valveless cistern fittings including syphon, 15mm side inlet ball valve, 3 /4" side overflow, plastics flushbend, inlet connector and reversible metallic chrome plated cistern lever. There shall also be a heavy duty seat(25mmhigh) and cover with chrome plated metal hinges, toilet roll holder, 610 x 610 x 6mm thick mirror and robe hook.</p> <p>ii) Semi pedestal wall mounted W.H.B of size 600x500x545mm high with flexible connectors to waste and taps. The basin shall be manufactured from vitreous china complying with B.S 3402. It shall have one L/H tap hole with 15mm chrome plated lever action pillar tap, chrome plated waste with height adjustable trap, pedestal and wall fixing bolts.</p> <p>iii) Hinged support rail with toilet roll holder 770mm long manufactured in nylon coated aluminium and mounted on a wall fixing plate size 230x100 mm, 4No. 600mm grab rails with covered wall plates.</p> <p>The set shall be as Twyford's DOC.M wheelchair accessible W.C. facility or approved equivalent.</p>	2	No		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	Sanitary fitting Continuation.....				
A	European type water closet in approved colour complete with horizontal outlet to BS 3402 complete with, heavy duty seat and cover and p-trap outlet connector all as Twyford's Galerie ref. No.GR1148 CH or approved equivalent excluding flushing cistern.	12	No		
B	Approved stainless steel flushometer unit 1.6 gallons per flush	14	No		
	<u>Wash hand fittings</u>				
	Wash hand basin				
C	Wash hand basin and pedestal as Twyford "Advent 565 or equal Countertop" size 565 x 425mm with one central tap hole WH complete with 32mm diameter lift-up waste (No.WF9365CP) and 32mm plastic bottle trap (No.WF8482XX)	10	No		
D	Self-closing push tap , 15mm C.P.,non concussive type pegler- Prestex Cat. No.877	10	No		
	Toilet Roll Holder				
E	Brushed Stainless Steel Paper Towel Dispenser Wall Mount, Commercial Jumbo Toilet Paper Dispenser, 9 Inch Roll with 2.5 Core, Toilet Paper Holder Bath Tissue Dispenser Lock Key	10	No		
	Urinal				
F	Clifon or equal range of 2 consting of pipe work for range of 2 , urinal bowl , Twyford dome shape waste , urinal dividers and approved stainless steel flushometer with flush rate ranging from 0.125 gallons or 0.5ltrs per flush urinal bowls secured to wall and PVC waste connected to waste pipe via 40mm connector.	4	No		
	<u>Mirrors</u>				
H	6mm thick polished plate glass, silver backed mirror with bevelled edges, size 610x497mm, plugged and screwed to wall with 4No. Capped screws and 5mm thick foam rest	7	No		
	<u>Water tanks</u>				
J	Supply and install UPVC cylindrical vertical (diaXht) 10,000 Ltrs 2400x2800 mm water tanks	1	No		
K	5,000Ltrs 1670x2060mm ditto	2	No		
	<u>Hose reels</u>				
L	Fixed tupe Hose reel C/W 30x19M hose, tubing, spray nozzle and valve	7	No		
	<u>Pedrollo pump</u>				
M	PKm 100/1 1.5HPx80Mx70 Lit/min domestic Pedrollo booster pump	1	No		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Booster pumps</u>				
A	Hawig (German) Hobby booster pump C/W Pressure switch, pressure tank and anti vibration hose.	1	No		
	<u>Accessories for pump</u>				
B	Hydrofresh 24sF spherical water tank with pressure guge	1	No		
C	Eco press- 1.1 Kw electronic flow contral system	2	No		
D	Italy Pedrollo float switch	2	No		
	<u>Waste pipe and sewerage connection</u>				
E	Carefully remove concrete paving blocks surface include road kerb and concrete chanel and set aside for reuse and cartaway arising debris.	13	sm		
F	Reinstall and replace concrete paving blocks surface include road kerb and concrete chanel and cartaway arising debris.	13	sm		
G	<u>Supply and lay Mechanically, heavy duty 80mm thick interlocking concrete paving blocks to client with and including 50mm sand bed;approval.</u>	6	sm		
H	Provide,handpack and compact mechanically approved hardcore material.	20	cm		
J	Excavate for strip footing trenches n,e 1.5m deep	25	cm		
K	Costruct 450x350mm and height ranges from 300-500mm standard inspection chamber complete to detail	12	No		
L	Provide and lay 150mm dia PVC waste pipe and fit to mechanical engineers details. Rate to include all the necessary manhole interconnection backfilling, 1:3:6 mass concrete encasement and any other accessories.	96	lm		
M	600x 450mm heavy duty cust iron manhole cover and frame or equivalent and approved	8	No.		
N	Ditto but 450x450mm covers	4	No.		
	<i>Carried to Collection</i>				
	COLLECTION				
	<i>Brought forward from page 2</i>				
	<i>Brought forward from page 3</i>				
	<i>Brought forward from page 4</i>				
	<i>Brought forward from page 5</i>				
	<i>Brought forward from page 6</i>				
	<i>Brought forward from page 7</i>				
	<i>Brought forward from page above</i>				
	INTERNAL PLUMBING & EXTERNAL FOUL DRAINAGE WORKS CARRIED TO PRIME COST SUMS AND PROVISIONAL SUM PAGE				

BILL NO. 4

ELECTRICAL INSTALLATIONS

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E.W/1

Expansion of Nyeri office

Ben
20/2/2026

BILL NO. 4
ELECTRICAL INSTALLATIONS

This Bill No. shall be priced and filled by eligible Main contractor's specilaized subcontractor or the Main contractor if eligible for these specialist installations. The rates for this bill number shall be deemed to be inclusive of all preliminary requirements by the specialized contractor. The domestic subcontractor must meet the minimum qualification requirements for specialized subcontractors contained in the Evaluation Criteria and **must duly fill the summary page for this bill No.4**

<u>ELECTRICAL WIRING & FITTINGS</u>					
	<u>Supply, Deliver to site, install, set to work and commision the following.</u>				
A	Lighting points completely wired in 3x1.5 mm single cable drawn in 20mm diameter heavy gauge conduit for two way switching couplers, sandle clips, circular boxes and switch boxes but excluding the fittings.	1900	lm		
B	3x4mm single core pvc insulated copper cables drawn in 20mm diameter heavy gauge pvc conduits including couplers and twin boxes excluding the socket outlets.(for SP sockets)	630	lm		
C	3x4mm single core pvc insulated copper cables drawn in 20mm diameter heavy gauge pvc conduits including couplers and twin boxes excluding the socket outlets.(for handryers)	728	lm		
D	3x4.0mm single core pvc insulated copper cables drawn in 20mm diameter heavy gauge pvc conduits including couplers and twin boxes excluding the socket outlets.(for TP sockets)	120	lm		
E	45A DP cooker control point, completely wired in 3x6mm single core pvc insulated copper cables drawn in 20mm diameter heavy gauge pvc but excluding the cooker- unit.	15	lm		
F	8 waysTPN distribution board complete with 125A integral isolator as MEM or equivalent excluding the MCBs and blanking plates.	4	No		
G	4 waysTPN distribution board complete with 125A integral isolator as MEM or equivalent excluding the MCBs and blanking plates.	1	No		
H	Duel tarrif meter board 24X24 constructed with 16 SWG powder coated mild steel and complete with mounting back blacket and vew glass.	1	No		
J	100A three phase MCCB as MEM or equiverent	1	No		
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ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	100mm heavy pvc conduits running from meter board to Distribution board including all boxes , bends, saddles & Accessories	20	lm		
B	200mmx75x2mm thick stainless power cable tray running from meter board to Distribution boards rate to include all accessories.	46	lm		
C	Ditto horizontal bend	2	No		
D	Ditto vertical bend outside	2	No		
E	Ditto vertical bend inside	2	No		
F	Ditto tee	3	No		
G	Ditto cross	1	No		
H	Protective multiple earthing comprising of 6.0mm pvc insulated cable drawn in 20mm heavy gauge conduits, 15mm by 1200mm long copper eletrode with clamp and ' eathing manhole with inspection cover to KPLC Ltd by laws and statutory requirements.	1	No		
J	<u>Lighting fittings-1200mm 36W HPF twin batten fluorescent luminaire complete with 18 watts LED tubes(frosted) as philips or equivalent.</u>	42	No		
K	<u>Lighting fittings-1200mm 36W HPF single batten fluorescent luminaire complete with 18 watt LED tubes(frosted) as philips or equivalent.</u>	35	No		
L	600x600mm, recessed mounted fluorescent Luminaire with, Cat 2 parabolic louvres and control gear for 4x 18W T8 lamps complete cool daylight 865 colour lamps. As CROMPTON lighting chevin plus or PIERLITE classic as T8 or equal approved. Type S4	200	No		
M	<u>Switches-10A one gang one way switch as MK or equivalent</u>	21	No		
N	Switches- 10A two gang two way switch as MK or equivalent.	4	No		
P	Switches- 10A three gang two way switch as MK or equivalent.	7	No		
Q	<u>Switches- 10A Intermediate switch as MK or equivalent.</u>	4	No		
<i>Carried to Collection</i>					

E.W/3

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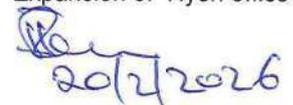
Ben
20/2/2026

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	Three phase industrial sockets with intergrated isolator as maximus or equivalent.	4	No		
B	45A DP Cooker control unit complete with 13A SP switched socket outlet, <u>neon indicators and marked 'Cooker' as MK or equivalent.</u>	2	No		
C	Cooker connector unit as MK. Or equivalent.	2	No		
D	15 A single socket outlet as MK. Or equivalent	1	No		
E	13A SP twin switched socket outlets as MK or equivalent.	160	No		
F	Consumer blanking covers	3	No		
G	45A DP Water heater switch complete with neon indicators and marked water Heater as MK or equivalent.	2	No		
H	Supply and fix hand dryer compact auto hand dryer 1.64 KW complete with switch and wiring Price to include protecting unit with grill casement fixed to wall all to client approval.	6	No		
J	SP MCBs as MEM or equivalent	10	No		
K	TP MCB as MEM or equivalent.	4	No		
L	100 mm and bend heavy gauge conduit for KPLC supply	2	No		
M	Spherical screwneck ball fitting complete with 18W CFL	5	No		
<i>Carried to Collection</i>					

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E.W/4

Expansion of Nyeri office


20/2/2026

ITEM	DESCRIPTION	QTY	UNIT		
	Submersible water pump. <u>Supply, fix, test and commission 1HP /0.75 submersible waterpump complete with associated electrical accessories including control panel, wiring, conduiting and all associated building and mechanical works.</u>				
A	1HP /0.75KW submersible water pump designed for high-lift shallow well, and drainage applications, typically operating on 220-240V single phase power with a 1.25 inch outlet, Maximum head of 32-150m. flow rates of 1.5-7.8CM/h, Maximum opating curent of 4.7A- 6.3A Stainless steel (or equivalent) motor casing, Max Particle Size: Generally 1.5mm - 2mm for clean water	1	No		
	Associated Electrical Accessories .				
B	Control box complete with:- Starter, carpacitor and overload protection capacitor 450V	1	No		
C	Submersible Cable : 4x1Smm flat copper cable.	30	Im		
D	Float Switch: Standard on drainage pumps for automatic on/off operation.	1	No		
E	Circuit Breaker: 25 Amp breaker recommended for 1 HP, 240V, 1-phase setups.	1	NO		
F	Safety Cable/Rope: Stainless steel safety line, essential for boreholes to prevent pulling on the electrical cable	10	Im		
	<i>Carried to Collection</i>				
	COLLECTION From page E.W /2 From page E.W/3 From page E.W/4 From page Above				
	ELECTRICAL INSTALLATIONS WORKS CARRIED TO PRIME COST SUMS AND PROVISIONAL SUM PAGE				

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E.W/5

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20/2/2026

BILL NO 5

PRIME COST SUM AND PROVISIONAL SUMS

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PCP/1

Expansion of Nyeri Office

Ren
20/2/2026

BILL NO.5

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<p><u>The following items of PC and provisional sum shall be expended either in full, part there of, or omitted in full if not expended and shall be priced using the rates contained in this bills of quantities or as guided by the fluctuation, dayworks PC & provisional sums clauses under the contract; all under the project manager's instructions.</u></p> <p>PRIME COST SUMS Allow for the following PRIME COST SUMS for works to be executed by a domestic sub-contractor Bill No. 3 INTERNAL PLUMBING & EXTERNAL FOUL DRAINAGE WORKS. Kenya Shilling in Words : </p>				
A	<p>..... (Figures Kshs:.....) only for internal plumbing and External foul drainage works Bill No 3 page PB.W/8 .</p>	1	item		
B	Allow for Attendance	1	item		
C	Allow for profits and over heads	1	%		
	<p>ELECTRICAL INSTALLATIONS Allow for the following PRIME COST SUMS for works to be executed by a domestic sub-contractor Bill No. 4 ELECTRICAL INSTALLATIONS WORKS. Kenya Shilling in Words : </p>				
D	<p>..... (Figures Kshs:.....) only for Electrical installations works Bill No 4 page E.W/5 .</p>	1	item		
E	Allow for Attendance	1	item		
F	Allow for profits and over heads .	1	%		
	<p>PROVISION SUM Allow the following PROVISIONAL SUM to be expended in whole or in part upon the directions of the PM</p>				
	<p>CONTINGENCIES Kenya Shillings ONE MILLION SIX HUNDRED TWENTY THOUSAND (KShs. 1,620,000.00) only for contingencies.</p>				
G		1	item	1,620,000	1,620,000.00
<p align="center">TOTAL COLLECTION FOR PRIME COST SUM AND PROVISIONAL SUMM TO GRAND SUMMARY PAGE</p>					

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PCP/2

Expansion of Nyeri Office

Ben
20/2/2026

PROPOSED EXPANSION OF NYERI KPLC OFFICE

GRAND SUMMARY

BILL NO.	DESCRIPTION	PAGE NO.	AMOUNT
			K.SHS.
1	BILL NO. 1:- PRELIMINARIES	PRELIM .W / 17	
2	BILL NO. 2:- BUILDERS WORKS	BW/21	
3	BILL NO. 5:- PC AND PROVISIONAL SUM	PC.SUM/2	
	TOTAL COST VAT EXCLUSIVE		
	0.03% PPCBL OF TOTAL COST		
	Add VAT 16% (PPCBL ECLUSIVE		
GRAND TOTAL COST(0.03% PPCBL INCL & 16% VAT INCL)			
CARRIED TO FORM OF TENDER (KShs.)			

Amount In Words :

.....

.....

.....

.....

.....

Completion period :

Name of the Contractor :

Contractor's official rubber stamp and Signature:

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SCHEDULE OF RATES

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S.M/1

Expansion of Nyeri office


20/2026

SCHEDULE OF RATES

ITEM	DESCRIPTION	QTY	UNIT	RATE
	FINISHES			
A	350mm thickness for washes grouted stone pitching the formishing of materials and construction of a protective covering in stone pitching Grouted Stone pitching. The spaces between the stones shall be filled with cement mortar composed of one part of cement to three part of sand.with and including 100mm diamater at 1000 weep holes	1	sm	
	<u>ALUMINIUM PARTITIONS</u>			
	<u>ALL PROVISIONAL</u>			
	<u>Powder coated aluminium standard hollow sections; grooved as necessary; frames mitred at corners including reinforcing cleats all to approval</u>			
B	76x45x1.2mm thick aluminium hollow sections (horizontal top members)	1	lm	
C	76x45x1.2mm thick aluminium hollow sections (horizontal middle members)	1	lm	
D	Approx. 76x50x1.2mm thick aluminium sections (Vertical members) grooved as necessary to receive blockboard and / or glass panes.	1	lm	
E	76x50x1.2mm thick base member ditto	1	lm	
F	Beading; 25x25mm screwed as necessary (PROVISIONAL)	1	lm	
G	Extra over ditto for supply and fixing 20mm thick rubber strip to the PM's Approval (PROVISIONAL)	1	lm	
	<u>18mm thick, non-scratch veneered MDF(for partitions) including aluminium glazing beads (m/s) and all necessary rubber strips(m/s)</u>			
H	In aluminium partitions, to detail.	1	sm	

ITEM	DESCRIPTION	QTY	UNIT	RATE
	ALUMINIUM PARTITIONS CONT.....			
	<u>Glazing</u>			
	<u>Toughened glass fixed to aluminium framing/connectors and rubber strips (m/s)</u>			
A	5mm thick, toughened glass with oneway approved tint . <u>Aluminium Doors</u>	1	sm	
B	Supply and fix Aluminium framed door 900 x 2100 mm in 2 unequal panels:top panel infilled with 6mm thick toughened with oneway approved tint;bottom panel infilled with 25mm thick non-scratch veneered MDF (m/s) on both sides properly secured to wall and framing complete with accessories including 2 lever cylinder lock (Viro or equally approved English type) and heavy duty hinges.	1	No.	
C	Ditto but 1/2 door infilled with 25mm thick non-scratch veneered MDF size 900 x 1200mm high. <u>Aluminium louvres</u> <u>Supply and fix aluminium louvres and / or glazed louvres fixed and /or openable; including aluminium framings and the like at specified parts of the ongoing aluminium partition works as may be directed by the project manager , sizes;</u>	1	No.	
D	3500 X 300 mm high	1	No.	

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S.M/3

Expansion of Nyeri office


20/2/2026

ITEM	DESCRIPTION	QTY	UNIT	RATE
A	<p>Acoustic Ceiling Finish</p> <p>Acoustic suspended semi recessed LIG acoustic ceiling as Armstrong TEGULAR DUNE on white 24mm wide laid-in grids as Trulok F24 Armstrong complete with white perimeter and curved trim; wall angles as necessary including 12mm diameter hangers and wires as per the manufacturer's specifications fixed approximately 1100mm below soffits of roof structure and to the Architect's approval. 600x600x15mm thick Armstrong or other equal and approved mineral fibre acoustic ceiling lining tiles fixed to aluminium gridwork and suspended with steel wires</p>	1	sm	

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S.M/4

Expansion of Nyeri office

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