Annexure 1

THE GOVERNMENT OF ZIMBABWE



PROPOSED STAFF ACCOMMODATION

AT FORBES BOARDER POST

IN

MUTARE

FOR

ZIMBABWE REVENUE AUTHORITY

ARCHITECTS, ENGINEERS AND QUANTITY SURVEYORS

MINISTRY OF LOCAL GOVERNMENT AND PUBLIC WORKS

P BAG 7755

CAUSEWAY

HARARE

MARCH 2022

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NOTICES TO BIDDERS

GENERALLY

These Bills of Quantities are to be read in conjunction with, and all workmanship and materials, unless otherwise describes, shall comply with the Ministry of Local Government and Public Works' "General Specification" revised in January 1978.

It is hereby made condition that the Contractor's submission of a tender based on these Bills of Quantities shall be accepted as proof that he is in possession of the above mentioned General Specification at the time of tendering and his tendered price was based on the requirements of such General Specification.

The Contractor is required to check the number of pages of all the documents, and all references thereto in Summary and the collections. Should any pages be missing or duplicated, or the figures or typing be indistinct, or the descriptions be ambiguous, he is to apply at once to the Ministry of Local Government and Public Works and have the same rectified.

Any errors or claims arising through the Contractor's failing to comply with the above will not be admitted after submission of his tender.

These Bills of Quantities are to be priced by the contractor and returned, fully priced in ink, only when his Tender is being considered for acceptance, and when called for by the Ministry of Local Government and Public Works.

SYSTEM OF MEASUREMENT

The method of measurement of these Bills of Quantities (Section 1, 2 & 3 only) is in accordance with the general principles laid down in the System of Measurement of Building Work in Zimbabwe, third edition, dated 1st May 1985, as issued by the Zimbabwe Institute of Quantity Surveyors and Construction Industry Federation of Zimbabwe. This system may be modified in certain respects as described in these

Bills of Quantities and it is to be understood that the system of measurement adopted in these Bills of Quantities is the only system which will be recognised in connection with this Contract.

TRADE NAMES, ETC.

Where names, manufacturer's catalogue or reference numbers, etc., are used in these Bills of Quantities, the items referred thereto shall be of equal quality, specification and mass in all respects to those specified and approved for any substitution shall be obtained in writing from the Ministry of Local Government and Public Works before submission of tenders, otherwise the specified materials, fittings, etc. will be assumed to have been allowed for in the tender.

DRAWINGS

The following drawings have been used in the preparation of these Bills of Quantities, and may be seen at offices of Ministry of Local Government and Public Works.

Architectural drawings

DRAWING TITTLE	PAPER SIZE	DRAWING No

SECTION 1 - PRELIMINARIES AND GENERALS

	BILL NO. 1
	PRELIMINARIES
	NOTES TO TENDERERS
A	The following Preliminaries shall apply to all tenders whether based on Bills of Quantities or on a Specification, issued by the Ministry of Local Government and Public Works.
В	In the case of a tender based on Bills of Quantities the Tenderer should allow for all costs incurred in complying with these Preliminaries in the money column of this Bill and carry the total (if any) to the appropriate Summary in the Main Bills of Quantities, or as otherwise instructed in the Tender Documents.
С	In the case of a Tender based on a Specification, the Tenderer should include for all costs and expenses in complying with these Preliminaries in his lump sum Tender figure for the work.
D	In the case of a Contract based on a Specification those Preliminaries which refer to "Bills of Quantities", shall apply only where such term is synonymous with the term "Specification".
E	The Specification or Bills of Quantities are to be read in conjunction with, and all workmanship and material, unless otherwise described, shall comply with the current edition of the Ministry of Local Government and Public Works "General Specification of Materials and Workmanship" and with any amendments thereto. It is hereby made a condition that the submission of a tender based on Bills of Quantities or a Specification issued by the Ministry of Local Government and Public Works shall be accepted as proof that the Tenderer was in possession of a copy of this "General Specification" and amendments thereto at the time of tendering and that his tender price was based upon the requirements of such "General Specification" and amendments thereto.
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- A No representation, explanation or statement which in any way alters the tender or contract documents, made prior to the acceptance of a tender or during the progress of the contract shall bind the Secretary for Local Government and Public Works unless such explanation, statement or alteration be made and confirmed under the signature of the Secretary for Local Government and Public Works.
- B Should there be any doubt or obscurity as to the meaning of any particulars in the Specification, Bills of Quantities or Tender Documents, the Tenderer must obtain an explanation as to the true intent and meaning in writing from the Secretary for Local Government and Public Works before submitting his tender. No claim for extras arising from any doubt or obscurity will be admitted after the delivery of his tender.
- C The Tenderer is required to check the number of pages in the Specification (and in the case of Bills of Quantities all pages and references thereto in the "Collections" and Summary), and should any pages or references thereto be missing or duplicated or the figures or typing be indistinct, he is to apply at once to the Secretary for Local Government and Public Works and have the same rectified. Any errors arising through the Tenderer failing to do this will not be admitted after the submission of his tender.
- D The Contractor shall, when requested by the Secretary for Local Government and Public Works, deposit his Bills of Quantities fully priced out in ink with the Secretary for Local Government and Public Works, and on the basis of this Bill of Quantities all extras and ommissions will be valued. The Secretary for Local Government and Public Works shall be at liberty to call for such adjustments of individual rates and rectify discrepancies as he considers necessary provided that the Tendered Amount is not altered.

CONDITIONS OF CONTRACT

E The Tenderer is referred to the "Conditions of Contract" and if he considers any of the clauses (or any amplification thereof given below) in such Conditions involves expense not inluded elsewhere, he should inlude for same.

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A	Should the Tenderer not be in possession of the Ministry of Local Government and Public Works Standard Conditions of Contract, two copies will be issued to him on application being made.	
В	A Tenderer's failure to obtain a copy of the Conditions of Contract will not absolve him from complying with such Conditions.	
С	Clause No. 1: Scope of Contract.	
D	Clause No. 2: Drawings, Specifications and Bills of Quantities, etc.	
E	Clause No. 3: Local and Other Authorities' Notices and Fees.	
F	Clause No. 4: Setting Out of Works.	
G	Clause No.5: Materials and Workmanship to Conform to Description.	
н	Clause No. 6: Foreman.	
J	Clause No. 7: Access for Architect to Works.	
к	Clause No. 8: Clerk of Works.	
L	<u>Clause No. 9: Ascertainment of Prices for</u> <u>Variations.</u>	
М	Clause No. 10: Bills of Quantities.	
	Should the Contractor not affix any figures in the money column against any particular items, he shall write hyphens thus: against such items.	
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	All measurements, sizes and quantities throughout the Bills of Quantities are taken nett and should be held to mean the finished measurement and sizes, unless otherwise stated. The Quantities represent the actual nett quantities left in the building. The Contractor must allow in his prices for all cutting and waste, etc.	
	The Bills of Quantities are not to be used for the ordering of materials except at the Contractor's own risk. They have been prepared in order to enable the Contractor to furnish an estimate for the work and to provide unit rates for adjustment of variations.	
	No alterations, erasures or additions are to be made by the Tenderer in the text of the Bills of Quantities, and should any such alterations or additions be made the same will not be recognised and the text of the Bills of Quantities will be adhered to.	
	To assist the Tenderer in casting the various trades in these Bills of Quantities, sufficient space has been left at the end of each trade to enable him to cast each page separately, and carry the same to a column on the page in question under the heading of "Collection".	
А	<u>Clause No. 11: Unfixed Materials when taken</u> into account to be Property of the Government.	
В	Clause No. 12: Defects After Completion.	
С	Clause No. 13: Assignment or Sub-letting.	
D	Clause No. 14: Injury to Persons or Property.	
	(a) <u>Injury to Persons</u> : The Contractor is to allow for all costs and charges in taking out an Insurance Policy covering <u>THIRD PARTY RISKS</u> , in the joint names of the Government and the Contractor.	
	 (b) <u>Workmen's Compensation.</u> (c) <u>Injury to Property.</u> (d) <u>Damage resulting from riot or civil</u> <u>commotion.</u> 	
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A	<u>Clause No. 15: Insurance</u> . The Contractor is to allow for all costs and charges in insuring the building against fire, <u>for the full amount of the Contract plus 12½% to</u> <u>cover professional fees, from the commencement of</u> <u>work until the building is handed over. The policy is to</u> <u>be deposited with the Secretary for Local Government</u> <u>and Public Works and payments to the Contractor</u> <u>may be withheld until this Clause has been complied</u> <u>with.</u>	
В	Clause No. 16: Occupation.	
с	Clause No. 17: Date of Possession and Completion.	
D	Clause No. 18: Damages for Non-completion.	
E	Clause No. 19: Delay and Extension of Time.	
F	Clause No. 20: Determination by Government.	
G	Clause No. 21: Determination by Contractor.	
н	Clauses No. 22 and 23: Nominated Sub-contractors and Suppliers.	
	Where the Government becomes the nominated sub-contractor or the nominated supplier no cash discount will be allowed.	
	When during the course of the contract the Government omits Provisional Sums included in the Bills of Quantities, Specification or Tender Documents for nominated sub-contractors or nominated suppliers and negotiates a separate contract for such work to be paid direct by the Government, the main Contractor shall allow such facilities and he shall be entitled to payment of profit and attendance at the rates included by him in the Bills of Quanties against the respective items, adjusted pro rata on the amount paid direct by the Government, but shall not be entitled to claim cash discount or compensation for loss thereof.	
	Carried to Collection	\$

su wh ca dis	the event of Provisional Sums for nominated b-contractors' or suppliers' work being omitted in hole or in part, and such work not being otherwise rried out during the period of this contract all cash scount, profit and attendance shall be similarly hitted in whole, or in part pro rata.
Th du co wc Sp Cc su Gc as dis the an	ause No. 24: Artists, Tradesmen and Works Outside the Contract. The Government reserves the right at all times ring the progress of the contract to let separate Intracts for Specialists' work, or any other similar ork not included in the Bills of Quantities, becification or Tender Documents, and the main ontractor must grant access, and all facilities to ch artists, tradesmen and others so engaged by the overnment and such persons shall not be regarded sub-contractors under this contract and no builders' acount or profit in respect thereof shall be payable to the Main Contractor, but in the event of attendance d making good being required payment will be made a fair valuation of the services performed.
rec kn or int inc gu	assist the Contractor in arranging any attendance quired, the Government may, when there is prior owledge of specialist work, state in the Specification Bills of Quantities the approximate value of such ended or existing separate contracts, but the clusion of this information is for the Contractor's idance only and shall not be deemed to be an nount included in the value of the Contract.
Th sh Pu wo	ause No. 25: Certificates and Payment the Contractor when requiring a progress payment, all furnish the Secretary for Local Government and ablic Works with an approximate statement of the ork executed, detailed and priced under trades and sed on his original tender.
for pro list co sh no wit	all cases where the Contractor requires payment ounfixed materials on the site, the application for a pagess payment must be accompanied by a complete to of all such materials, signed by the Contractor and untersigned by the Clerk of Works. All such material all become the property of the Government and shall to be taken away (except for use in the building) thout the written permission of the Secretary for Local overnment and Publi Works.

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Not more than 80% of the value of any materials on site will be included in progress payments and such payments will only be made for materials which are properly protected from weather and theft, and which have not, in the opinion of the Quantity Surveyor, been brought prematurely upon the site.

All monies due to the nominated sub-contractors or suppliers and which are included in the contractor's certificate shall be paid to the sub-contractors or suppliers by the Contractor within 21 days after the date of the certificate in which the sum due is included. in the event of such payment not being made within the above stipulated time, the Contractor shall lose all right to claim any cash discount on the monies involved and the Secretary for Local Government and Public Works reserves the right to deduct ALL sums of maney that are due to the said sub-contractors or suppliers from the Contractor's next certificate and pay them direct to the sub-contractors or suppliers.

It is a condition of this contract that the Government shall not be bound to pay (except under an Order of the Court) any monies due or to become due hereunder to any persons save the Contractor who shall not have the right to assign his rights to payment to any third party without first obtaining the written consent of the Government to such assignment.

A <u>Clause No. 26: Wages</u>

В Clause No. 27: Non-Payment of Certificates Notwithstanding the provisions of Clause 25 of the "Conditions of Contract", the Government reserves the right to withhold retention money beyong the retention period until the Contractor has submitted to the Secretary for Local Government and Public Works all receipts in respect of monies due to nominated sub-contractors and nominated suppliers which have been included in payments made to the Contractor, and in the event of the Contractor failing to produce within 14 days of being asked in writing, conclusive evidence that such amounts have been fully paid, the Government shall have the right to make final payment direct to such sub-contractors or suppliers and to deduct the value thereof from the retention money, or other monies due under the Contract.

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А	<u>Clause No.28: Surety Bond</u> The Contractor is to allow for all costs and charges in taking out the surety bond.
В	Clause No. 29: Corrupt Gifts and Payments of Commission.
С	Clause No. 30: Photographs.
D	Clause No. 31: Articles of Value or Antiquity.
E	Clause No. 32: Patent Rights and Royalties.
F	Clause No. 33: Arbitration.
	PRELIMINARIES AND GENERAL
	The tenderer is referred to section B, Preliminaries and General, Pages B.1 to B.9 of the General Specification and if he considers that any of the clauses or any amplification thereof given below involves expense not elsewhere included, he should include for same hereunder.
	Clause B.1 Public Liability.
G	1.1 Noise control.
н	1.2 Nuisance. The Contractor shall make adequate provision by spraying, erecting screens or other suitable methods, against nuisance or damage by dust to all works under this Contract, to persons or property in the vicinity, and he will be held solely responsible for any complaints, damage or claims in this connection.
J	1.3 Adjoining owners. The Contractor shall not in the execution of the Works enter upon or otherwise make use of any lands adjoining the site of the Works as demarcated on the site plan, without the consent in writing of the Secretary for Local Government and Public Works or without the consent of the owners of such adjoining lands, having been previously obtained, but shall (except with such consent) confine his operations within the site of the Works. No trespassing beyond the limits as Carried to Collection

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		above described will be allowed.	
А	1.4	Adjoining property.	
В	1.5	Police regulations.	
С	1.6	Statutory obligations.	
D	1.7	Notices, fees and charges.	
	<u>Claus</u>	se B.2 Prevention of Damage or Loss	
Е	2.1	Locate existing services.	
F	2.2	Protect existing services.	
G	2.3	Damage to services.	
н	2.4	Fire precautions.	
J	2.5	Damage to roads.	
К	2.6	Repairs to roads.	
L	2.7	Clear roads Nothing shall be done by the Contractor or anyone employed by him that shall in anyway interfere with the free use by the public of any of the roads, gravel drives, paths, etc., within or approaching the site.	
М	2.8	Protect trees and shrubs.	
Ν	2.9	Replace trees and shrubs.	
0	2.10	Existing features. Make good or reinstate at the Contractor's expense all damage which may occur to gates, fences, buildings or other Government property existing upon the site.	
Ρ	2.11	Existing damage.	
	Claus	se B.3 Management/administration Procedures	
Q	3.1	Programme.	
R	3.2	Submit.	
S	3.3	Submission	
		Carried to Collection	\$
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B3.5Monitoring. The Contractor shall provide record book which shall prov two copies in which shall be visits and daily record of worC3.6Safety, health and welfare.D3.7Use of site.E3.8Site meetings.F3.9Minutes.G3.10Measurements.H3.11Labour return.J3.12Daywork vouchers.K3.13Order materials.Clause B.4Resources/TemporaL4.1Locations.M4.2Temporary works.N4.3Roads.O4.4Buildings.P4.5SO's site office.Q4.6Storage for cement and limeR4.7Sanitary accommodation for	ide one original and recorded all site k done.
 D 3.7 Use of site. E 3.8 Site meetings. F 3.9 Minutes. G 3.10 Measurements. H 3.11 Labour return. J 3.12 Daywork vouchers. K 3.13 Order materials. <u>Clause B.4 Resources/Tempora</u> L 4.1 Locations. M 4.2 Temporary works. N 4.3 Roads. O 4.4 Buildings. P 4.5 SO's site office. Q 4.6 Storage for cement and lime 	ry Works and Services
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P 4.5 SO's site office.Q 4.6 Storage for cement and lime	
Q 4.6 Storage for cement and lime	
P 47 Sepitery accommodation for	
R 4.7 Sanitary accommodation for	supervisory staff.
S 4.8 Sanitary accommodation for	artisan staff.
T 4.9 Hoardings, gantries and scaf	folding.
U 4.10 Name boards.	
V 4.11 Telephones.	
W 4.12 Water. Allow for providing all water f	or the Works and for
	Carried to Collection \$

	sub-contractors, pay all fees and charges legally demandable and provide all necessary piping, taps and other fittings, storage tanks, etc. If this Contract embodies work at a Government building or institution where water is already lain on, the Contractor may by agreeing in writing with the Secretary for Local Government and Public Works, use the water from this supply. (Any connection to or extensions of the existing supply pipes must be provided at the Contractor's expense.) If permission be thus obtained and the Contractor uses the water from this source, he shall pay the Government (by deduction from the amount due under the contract) a sum equal to one quarter percent (¼%) of the final completed cost of the work executed under this contract as disclosed in the final statement, and shall allow in his price for water such amount as he considers necessary to cover this cost. The use of water from a Government supply is granted subject to the condition that the water used by the Contractor shall be for building purposes only and should the Government be satisfied that the Contractor is unduly wasting water and/or using water for any subsidiary purpose such as providing for living accommodation of his workmen on the site, the Government reserves the right to deduct from monies
	due under the contract their assessment of all such additional water used.
А	4.13 Lighting and power. It is entirely the Contractor's responsibility to ascertain before tendering the availability of electricity and all costs and charges thereof, and no claim arising out of this clause will be considered after the submission of a tender.
В	4.14 Plant.
С	4.15 Sole use of plant.
D	4.16 Removal of plant.
Е	4.17 Plant to comply.
F	4.18 Protective clothing.
	Clause B.5 Nominated Firms/Public Bodies
G	5.1 Prime cost or provisional sums. Where Provisional and Prime Cost Sums are included Carried to Collection \$

		for works to be performed, or materials supplied by nominated sub-contractors or suppliers, the Secretary for Local Government and Public Works will invite tenders (or may request the Contractor to obtain not less than three tenders) and direct the Contractor to accept a tender from a sub-contractor who will then become a nominated sub-contractor or supplier in terms of the Conditions of Contract: Clauses 22 and 23". The main Contractor will be entirely responsible for the prope and timely execution of the sub-contract and no contract will exist between the will nominated sub-contractor or supplier and the Government, and it is the responsibility of the main Contractor to ensure that the sub-contractor indemnifies the Contractor against the same obligations in respect of the sub-contract, as those for which the Contractor is liable in reslepect of the main contract. The Contractor shall not order any materials for which Provisional or Prime Cost Sums are included without first receiving instructions in writing from the Secretary for Local Government and Public Works so to do. so to do. The Contractor will be required to produce all receipted invoices, if demanded by the secretary for Local Government and Public Works for the adjustment of accounts. If items are reserved for work of a nature usually carried out by the Contractor in the course of his business, the Government may give the Contractor an opportunity of tendering for the same without prejudice to the Government's right to reject the lowest or any tender.	
A	5.2	Sub-contractors. The names of all sub-contractors (other than nominated) whom the Contractor proposes to employ shall be submitted to the Secretary for Local Government and Public Works for approval before the signing of the Contract. Such approval shall not be unreasonably withheld.	
В	5.3	 General Attendance. Wherever the words 'allow for attendance" occur, it shall be deemed to cover all the Contractor's costs involved in the following:- (a) For giving the sub-contractor every facility to enable him to execute his work in a workmanlike manner and in proper order and sequence. 	
		Carried to Collection	\$

		(b) For allowing the sub-contractor free use of all scaffolding and plant as may be reasonably required by him, and for erecting, shifting and removing as necessary such scaffolding and plant free of charge to the sub-contractor.	
		(c) For providing water or electricty required by the sub-contractor.	
		(d) For receiving, unloading, checking, and removing to store all the sub-contractor's materials, articles and fittings on arrival at the site, and where necessary for providing proper storage accommodation for the prevention of pilferage, damage, etc., returning all empties and packing of same carriage paid, and for hoisting or lowering materials, articles, or fittings to the requisite levels and positions in the the building.	
		(e) For agreeing with the sub-contractor proper and accurate working dimensions and other particulars and for obtaining from the sub-contractor full data and particulars as to the sub-contrctor's requirements, with particular regard to chases, recesses, mortices, notchings, holes, perforations, etc., and for obtaining full information from the sub-contractor to enable the Contractor to make proper arrangements and provisions during the general execution of the work for the receptopn of the sub-contractor's work. The cost of any alterations consequent upon the non fulfilment of the foregoing stipulations will be at the Contractor's sole expense.	
		(f) For all items, conditions or requirements with regard to the sub-contractor's work mentioned or described in the general Conditions of Contract, Specification and Preliminaries not specifically stated in the foregoing.	
А	5.4	Supervision.	
В	5.5	Programme.	
		Carried to Collection	\$

	<u>Clau</u>	se B.6 Quality/Testing/Approvals.		
А	6.1	Commodities.		
В	6.2	Manufacturer's Recommendations.		
С	6.3	Standards.		
D	6.4	Single Sources.		
Е	6.5	Samples of commodities.		
F	6.6	Samples of work.		
	<u>Clau</u>	se B.7 Accuracy/Setting Out.		
G	7.1	Set out the works.		
н	7.2	Profiles.		
J	7.3	Permanency.		
к	7.4	Instruments.		
L	7.5	Check all dimensions.		
М	7.6	Dimensions.		
	<u>Clau</u>	se B.8 Protection.		
Ζ	8.1	Safeguard the site. Provide all necessary barriers, hoardings, footways, etc., and provide all necessary watching and lighting as required for the protection of the Works and materials and plant on the site, and for the protection of the public The Contractor will be held responsible for all injury or accident that may happen through failure to provide adequate protection and lighting.		
0	8.2	Inclement weather.		
Ρ	8.3	Stormwater and surface water. The Contractor must satisfy himself as to the quantities of subsoil and surface water to be dealt with and is to keep the building foundations and work generally clear of surface, subsoil and stormwater by baling, pumping or otherwise. Provide for dealing with springs, underground streams, etc., which may be opened up and provide all necessary pipes and machinery sufficient for the above purposes, and an ample supply Carried to Collection	¢	
		Carried to Collection	\$	

	of power, and apply the same as necessary to enable all operations to be promptly and efficiently performed, including night and day attendance and work as necessary.	
А	8.4 Overloading.	
В	8.5 Cleanliness.	
С	8.6 Damage by sunlight.	
D	8.7 Datum.	
	Clause B.9 Prefabricated Elements.	
Е	9.1 Delivery.	
F	9.2 Check fixings.	
G	9.3 Authorise erection.	
н	9.4 Notice.	
	Clause B.10 Work at Completion.	
J	10.1 Clean the works.	
к	10.2 Cleaning.	
L	10.3 Remove.	
М	10.4 Painted surfaces.	
N	10.5 Moving parts.	
ο	10.6 Security at completion.	
Р	10.7 Making good defects.	
Q	10.8 Maintenance instructions.	
	Clause B.11 Miscellaneous.	
R	11.1 Photographs.	
S	11.2 Articles of value or antiquity.	
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A <u>VISIT SITE</u>

The Contractor must visit the site of the Works before submitting his tender and carefully examine the conditions that exist, and he is to satisfy himself as to the nature of the materials to be excavated as well as all natural conditions, water and light services, transport facilities, etc. No allowance will be made in the event of conditions being different from what he expected.

B FLUCTUATIONS IN COSTS

1) Where applying to nominated sub-contractors or suppliers

Where the following provisions for fluctuations in wages, cost of living allowances or prices of materials are applicable to a nominated sub-contractor or nominated supplier, the additional payments to them are to be regarded as a reimbursement of expense only, upon which the contractor shall not be entitled to claim any additional pro rata profit in terms of Clause 25 (e) of the conditions of contract.

2) Fluctuations in wages and cost of living allowances

The Contractor is to pay not less than the recognised Standard Rate of wages and Allowances to all employees.

If at any time between the date of delivery of the Contractor's tender and the date for the completion of the Works any statutory fluctuation (i.e. any specific increase or decrease stipulated by the Government Gazette) takes place in the Standard Rate of Wages, Cost of Living Allowances, or other statutory compulsory contribution in respect of the men employed on the Works covered by this Contract, whether on the site or in the workshops or yards of the Contractor or sub-contractors (but not in respect of merchants or suppliers), the Contractor is to submit WEEKLY to the Secretary for Local Government and Public Works receipted time sheets, together with aweekly return of the number of hours worked, signed by the Foreman and countersigned by the Clerk of Works, and the contract price shall be adjusted in accordance with the statutory fluctuation. Variations, if any, made under this clause shall be a nett increase or increase or decrease, and no allowance will be made for any profit whatsoever. No claims will be admitted in respect of labour employed after the expiration of the contract completion date or any ammendments thereto under Clause 19 of the Conditions of contract.

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3) Fluctuations in prices of materials

Should any statutory fluctuation (i.e. any secified increase or decrease in control prices of materials stipulated by notices published in the Government Gazette) take place after the date of delivery of the Contractor's tender, the Contractor is to submit invoices for such materials certified by the Clerk of Works and the contract price shall be adjusted in accordance with the statutory fluctuation. Such variations, if any, made under this clause shall be a nett increase or decrease, and no allowance will be made for any profit whatsoever.

The term "statutory fluctuation" is accepted to cover variation in custom duty or other Government tax, duty or surcharge only when detailed in the relevant Act of Parliament or statutory notices as payable direct on specified building materials and items incorporated in a building structure but will not be accepted to cover any indirect variation of costs or overheads, etc., of the Contractor, sub-contractors, merchants or suppliers, arising from fluctuations in such items as railage, shipping rates, insurance, postage, dock dues, clearance charges, transport, power and fuel costs, etc., whether arising directly or indirectly from Government action.

No claims will be admitted under this Clause for statutory fluctuations coming into effect after the expiration of the contract completion date or any amendments - theretp under Clause 19 of the Conditions of Contract.

If the Contractor wishes to be protected against fluctuations in cost of any basic materials he is to <u>attach to the</u> <u>Form of Tender</u> a list of such materials and prices in respect of which he wishes to be protected. Such prices to be those upon which he bases his tender.

In support of these prices, the Contractor is to furnish <u>with his tender</u> bona fide current merchants quotations (for quantities as required for the job).

The prices actually paid must be substantiated by receipted invoices, and all adjustment will be nett with no allowance for profit, provided that if the variations are positive then the Contractor may add not more than 5% to the nett amount.

At completion of the works the Contractor will be required to substantiate the quantities used and the prices actually paid for all items listed in order that Government may benefit for any decrease in price that may have occured.

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Orders for materials as listed shall have been placed within a reasonable time after the date of acceptance of the tender, otherwise no adjustment will be made. Such time to be mutually agreed when the tender is provisionally accepted.

All delivery notes for materials as listed must be certified by the Clerk of Works as having been delivered to the site, and shall be submitted to the Secretary for Local Government and Public Works failing which no adjustment will be made.

Where no materials have been listed the tender shall be treated as a firm tender.

Dumping duties are not acceptable as fluctuations, and it is a condition of the tender that any dumping duty levied at an time on items and goods incorporated in this contract shall be payable by the successful tenderer, and not recoverable from the government.

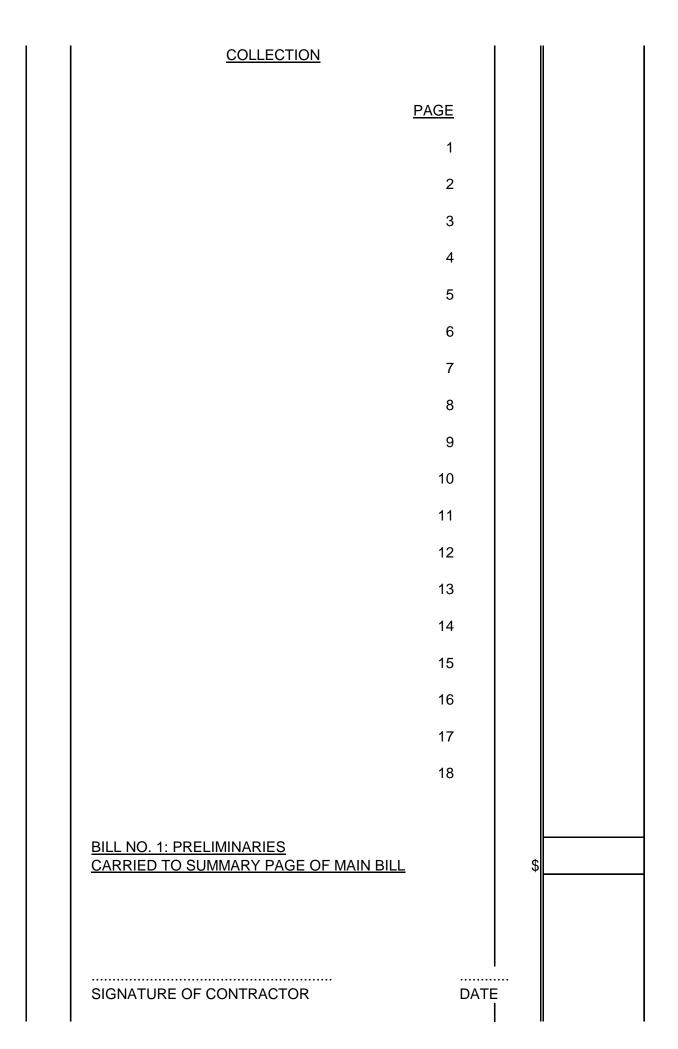
A AGREED WORKING HOURS

No work of any kind or description shall be done outside the agreed working hours of the building industry except such as shall be unavoidable or absolutely necessary for the saving of life or property, or the safety and protection of the works. Should the Contractor desire to execute any work outside the agreed working hours of the building industry, he shall first obtain the permission of the Secretary for Local Government and Public Works and any work executed outside such hours without the written permission having been first obtained will not be paid for, or if the Secretary for Local Government and Public Works desires the same taken out or pulled down and removed.

B DISMISSAL OF INCOMPETENT WORKMEN

The Contractor shall on the request of the Secretary for Local Government and Public Works immediately dismiss from the works any persons employed thereon who may, in the opinion of the Secretary for Local Government and Public Works be incompetent or miscounduct himself, or is likely to cause or who has caused strikes, disturbances or delays, and such persons shall not again be employed on the works without permission from the Secretary for Local Government and Public Works.

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SECTION 2 - STAFF COTTAGES

	BILL NO.2		
	FOUNDATIONS (PROVISIONAL)		
	(For Preambles see General Specification)		
	<u>Note</u> : Foundations have been measured to top of surface bed.		
	<u>SITE CLEARANCE</u>		
A	Clear site of all rubbish, bushes, shrubs, undergrowth, hedges, small trees, stumps, roots,	m²	284
В	Cut down and remove tree exceeding 500 and not exceeding 1000 mm girth measured 1000 mm above ground level including grubbing up roots and filling in holes.	no.	4
С	Ditto tree exceeding 1000 mm and not exceeding 2000 mm ditto.	no.	4
	EXCAVATION		
	Pumping and bailing		
D	Allow for the keeping excavations free of storm, surface and mud by pumping and bailing.	item	1
E	Excavate over site to remove vegetable soil average 150 mm deep and deposit on site not exceeding 100 metres.	m²	179
F	Disposal of topsoil	m³	27
	Carried to collection		

	Excavate in pickable earth for		
А	Reduced levels not exceeding 2 metres deep.	m³	27
В	Surface trenches not exceeding 2 metres deep.	m³	81
С	Allow for searching and excavation all ants' nests below ground level, treating with "Shelldrite Ant Poison "fill in and well ram selected excavated material and consolidate.	m³	4
D	Extra over excavation in pickable material for excavation in hard pickable material.	m³	17
Е	Ditto excavation in rock.	m³	11
	Planking and strutting		
F	Allow for maintaining and supporting sides of all excavations and making good all slips.	m²	278
	<u>Disposal</u>		
G	Redig from spoil heap, return, fill and well compact selected excavated material around foundations to 95% L.C.E. density.	m³	
Н	Redig from spoil heap and cart off site.	m³	27
	Carried to collection		

		I		 1
	Formation			
A	Scarify ground to a depth of 150 mm and compact to 95% L.C.E. density.	m²	179	
В	Selected and approved clean, hard, non-expansive granular filling supplied and brought onto site by the contractor well watered and mechanically compacted under ground slabs in layers of 150 mm thick to 90% HCE density	m³	54	
	SUNDRIES			
С	250 Micron black polythene sheeting well lapped at joints including all cutting and waste (measured nett) laid over filling to receive concrete.	m²	179	
	TERMITES			
D	Termite treatment as described to top of filling and foundation walls with "Shelldrite Ant Poison" by a specialist company and provide a written 10 year guarantee.	m²	179	
	PLAIN CONCRETE			
	<u>Concrete (Grade 25MPa) in</u>			
Е	Footings.	m³	22	
F	Ground floor slabs.	m³	16	
	<u>Sundries</u>			
G	Strike off and cure top of concrete.	m²	179	
	Carried to collection			

A	Welded fabric reinforcement of approved manufacture including all cutting, tying, placing in position with necessary temporary supports and minimum 300 mm laps both ways (measured nett) Ref. S193 (mass of 1.93 kg/square metre) in top reinforcement to slab. BRICKWORK Brickwork in approved common bricks in cement mortar as described	m²	154	
В	Half brick wall.	m²	28	
С	One brick wall.	m²	125	
	Reinforcement			
	Brickforce lapped at joints and junctions and building in as the work proceeds (measured nett)			
D	Ref. C1 in half brick walls.	m	111	
Е	Ref. C2 in one brick walls.	m	493	
	Carried to collection			

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BILL NO.2: FOUNDATIONS (PROV	SIONAL)		
CARRIED TO SUMMARY			

	BILL NO.3		
	CONCRETE, FORMWORK AND REINFORCEMENT		
	(For Preambles see General Specification)		
	STRUCTURAL CONCRETE		
	Vibrated reinforced concrete Grade 25 Mpa in		
А	Beams	m³	2
	Formwork Class A as described to		
В	Soffit of beams, lintels.	m²	10
С	Sides of beams, lintels.	m²	16
	<u>REINFORCEMENT</u>		
	Steel bar reinforcement		
D	High yield deformed steel reinforcement bars all sizes.	kg	280
	<u>Sundries</u>		
Е	Strike off and cure top of concrete.	m²	10
	Carried to collection		

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	PRECAST CONCRETE				
	Lintels				
А	115 x 170 x 1360mm long	no	4		
В	230 x 170 x 1480mm long	no	8		
	<u>Dripstones</u>				
С	Rainwater dripstone 450 mm wide and 650 mm thick and 800 mm long with segmental channel formed in top and place in position.	no.	16		
	Precast concrete apron				
D	900 x 900mm Precast concrete pavers	m²	95		
	Precast concrete Coping				
Е	Precast concrete coping as per Architects's design and Engineer's specification on top of parapet walls.	m	56		
	TESTING				
F	Allow for carrying out slump tests when directed as described.	item	1		
	Carried to collection				_
	Carried to concention				

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BILL NO.3: CONCRETE, FORM REINFORCEMENT CARRIED TO			

	BILL NO.4			
	BRICKWORK			
	(For Preambles see General Specification)			
	<u>SAMPLES</u>			
А	Allow for providing samples of all bricks as	item	1	
	BRICKWORK			
	Brickwork in approved common bricks in cement mortar as described			
В	Half brick wall.	m²	67	
С	Half brick in beam filling.	m²	7	
D	One brick wall.	m²	298	
	SUNDRIES			
Е	Bed wall plate in cement mortar.	m	39	
F	1,25 mm Galvanised hoop iron tie 25 mm wide and 1000 mm long one end built into brickwork or cast into concrete and other end wrapped around and spiked to wall plate and foot of truss.	no.	51	
G	230 x 150 mm Terra Cotta louvred and gauze backed external air brick and building into brick wall.	no.	32	
Η	230 x 150 mm cast plaster internal air brick and building into opening in plastered wall.	no.	32	
	WINDOW CILLS			
I	Brick on edge cills with dpc under (elswhere measured). All morter joints and holes exposed at side ends of cill to be plugged with crushed brick and cement mixture to match colour of cill bricks.	m	12	
	Carried to collection			
	l			I

	DAMP PROOF COURSE		
	One layer of three ply bituminous felt sheeting as damp proof course as described, well lapped at joints and junctions (measured nett)		
А	On half brick walls.	m²	3
В	On one brick walls.	m²	26
С	Under cills.	m²	2
D	Under precast concrete copings.	m²	13
	REINFORCEMENT		
	Brickforce lapped at joints and junctions and in as the work proceeds (measured nett)		
Е	Ref. C1 in half brick walls.	m	197
F	Ref. C2 in one brick walls.	m	877
	BUILDING IN		
G	Set up in position, cross brace and build in steel door frame not exceeding 5 square metres.	no.	8
	Leave or form opening through one brick wall including temporary centering to flat soffits of brickwork complete with all strutting, shoring not exceeding 5 metres high, bolting, wedging easing, striking and removing		
Н	Opening for Purpose made aluminium doors exceeding 5 square metres in area	no.	4
Ι	Opening for Purpose made aluminium windows not exceeding 5 square metres in area	no.	12
	Carried to collection		

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BILL NO.4: BRICKWORK			
CARRIED TO SUMMARY			

		1	
	BILL NO.5		
	ROOF COVERINGS		
	(For Preambles see General Specification)		
	"Harvey" concrete roof tiles in approved colour laid on sawn softwood battens to be fixed in strict accordance with the Manufacturers printed instructions including all square cutting (measured nett) to be fixed by an approved firm of specialits.		
A	Interlocking concrete tiles laid on softwood battens (elsewhere measured).	m²	251
В	Half round ridge or hip tile with and including three ply bituminous felt soaker bedded and pointed in cement mortar.	m	20
	BILL NO.5: ROOF COVERINGS		
	CARRIED TO SUMMARY		

BILL NO.6 CARPENTRY			
(For Preambles see General Specification)			
PREFABRICATED ROOF TRUSSES			
The trusses are to be "Gangnail" Hydronail or other equal and approved prefabricated timber trusses with all members in the same plane and jointed together with steel plate nails. All timbers are to be sw.			
The roof is to be created in accordance with the drawings.			
Prices are to include for all necessary trusses and bracing, and for hoisting and fixing in position.			
The roof is designed to carry concrete roofing tiles and, plasterboard ceilings with trusses spaced at approximately 750 mm centres and the contractor will be required to produce all design calculations for checking, notwithstanding which , he will be held responsible for the sufficiency of the design.			
Trusses, necessary hips, jack rafters, bracing, purlins etc fixed complete as per drawings	item	1	
Sawn softwood			
38 x 114 mm wall plate.	m	39	
EAVES AND VERGES			
225 x 12 mm cement fibre fascia board	m	40	
BILL NO.6: CARPENTRY CARRIED TO SUMMARY			

	BILL NO.7			
	JOINERY AND IRONMONGERY			
	(For Preambles see General Specification)			
	CEILINGS			
A	6 mm plasterboard ceiling boarding (plaster finish elsewhere measured) and fixing to and including 50 x 25 mm sawn softwood brandering at 400mm centres one way next wall and at end joints, skew nailed in opposite directions to roof timbers (elsewhere measured) including covering all joints with and including 75 mm wide strip of scrim planted on including all square cutting and waste	m²	154	
В	Extra over for forming trap door with 750 x 750mm clear opening comprising 20mm blockboard door size 775 x775mm hardwood lapped all round fitted loose with 38 x 38mm planted on (provisional) softwood rebated frame all round and 20 x 25mm cover beads.	no	4	
	<u>Cornices</u>			
С	75mm Rhino coved cornice including mitres, etc.	m	183	
	DOORS			
	Semi-solid core internal quality flush doors with venner suitable for painting both sides.			
D	44 mm Door. Size 813 x 2030 mm.	no.	4	
	Solid core external quality fire rated flush doors with veneer suitable for painting both sides			
Е	44 mm Door. Size 813 x 2030 mm.	no.	4	
	Carried to collection			

STAFF ACCOMMODATION

	1	l	1	I
	IRONMONGERY			
A	Union No. CZ682 - 24 - 95CH two lever mortice lockset.	no.	4	
В	Union No. CZ682 - 24 - 77CH three lever mortice lockset.	no.	4	
	BUILT IN CUPBOARDS (PROVISIONAL)			
С	Provide a sum for the supply, delivery and installation of kitchen cupboards, polished granite vanity worktops executed complete as per Architect's drawings and specifications.	item	1	
D	Provide a sum for the supply, delivery and installation of bedroom built-in cupboards executed complete as per Architect's drawings and	item	1	
	Carried to collection			

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BILL NO.7: JOINERY AND IRO CARRIED TO SUMMARY	NMONGERY		

	BILL NO.8			
	METALWORK			
	(For Preambles see General Specification)			
	STANDARD DOOR FRAMES			
	Standard full profile pressed steel door frames with chromium plated striking plates where appropriate (building in elsewhere measured)			
	To suit half brick wall (P.B.S.) for			
А	44 mm Door size 813 x 2030 mm.	no.	4	
	To suit one brick wall (P.B.S.) for			
В	44mm Door size 832 x 2030 mm.	no.	4	
	PURPOSE MADE ALUMINIUM WINDOWS, DOORS AND FRAMES AS DESCRIBED (BUILDING IN ELSEWHERE MEASURED) INCLUDING 4mm EXTERNAL GLAZING WITH U- VALUE OF 5.73 AND SHGc OF 0.6.			
	The whole to be executed by an approved firm of specialists. (Refer to the Window and Door Schedule for type in parenthis)			
С	Window type AC2F size 1020 x 950 mm high with and including 4mm obsure glass.	no.	4	
D	Window type AC2F size 1020 x 950 mm high with and including 4mm clear glass.	no.	4	
Е	Window type AAW2 size 900 x 1800 mm high with and including 4mm clear glass.	no.	4	
F	Sliding door size 2510 x 2180 mm high with and including 8mm clear laminated glass.	no.	1	
	BILL NO.8: METALWORK CARRIED TO SUMMARY			

	BILL NO.9		
	PLASTERING AND WALL LININGS		
	(For Preambles see General Specification)		
	EXTERNALLY		
	One coat cement plaster (1:4) as described including all labours with a fine woodfloat finish on		
А	Walls.	m²	298
В	Ditto in narrow widths.	m²	1
	INTERNALLY		
	One coat cement/sand plaster (1:4) and set in rhinoset plaster with woodfloat finish on to the following surfaces		
С	Walls.	m²	306
D	Ditto in narrow widths.	m²	2
	<u>Two coats "Rhinobond" plaster and one skimming</u> <u>coat of "Rhinoset" plaster applied with an approved</u> <u>flicking machine to give a tyrolean finish to an even</u> <u>thickness to the Architect approval on plasterboard</u>		
Е	Ceilings	M²	154
	Carried to collection		

		I			
A	Extra for 50 mm wide steel trowelled margin to edge of ceiling	m	183		
	WALL TILING				
	<u>6 x 600 x 300 mm "Porcelain" or other equal</u> <u>approved glazed wall tiles with continuous</u> <u>horizontal and vertical joints fixed with and including</u> <u>approved adhesive on and including cement sand</u> <u>screed (1:4) and point in coloured cement, on</u> <u>completion cleandown to approval, on:</u>				
В	Walls.	m²	174		
С	Walls, reveals, etc in narrow widths.	m²	1		
	<u>Sundries</u>				
D	150 x 150 mm recessed type toilet roll holder with spring loaded removable wood spindle and building into plastered brickwork.	no.	4		
Е	"Varese" chrome plated shower soap dish.	no.	4		
F	"Varese" chrome plated double towel rail.	no.	4		
G	"Roma" chrome plated tumbler holder.	no.	4		
	Carried to collection				

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BILL NO.9: PLASTERING AND WALL LININGS			
CARRIED TO SUMMARY			

	BILL NO.10			
	<u>PAVINGS, FLOOR COVERINGS, PLASTIC</u> LININGS, ETC			
	(For Preambles see General Specification)			
	<u>SCREEDS</u>			
	<u>Cement and sand screed (1:4) finished to a true</u> and even surface			
А	40 mm thick screed to receive ceramic tiles.	m²	24	
В	40 mm thick screed to receive non-slip porcelain tiles.	m²	130	
	CERAMIC FLOOR TILES			
	300 x 300mm Ceramic tiles with non-slip surface, as in "Samca Tiles" or similar approved, colour from manufacturer's standard colour range, on adhesive to manufacturer's recommendation and 3mm wide grout joints.			
С	Tiles laid on floors.	m²	24	
	PORCELAIN FLOOR TILES			
	800 x 800mm "Porcelain" or equal approved non- slip ceramic tiles bedded and tight jointed in and including cement mortar and flush pointed in coloured cement and finished with two coats of wax			
D	<u>polish.</u> To floors on screed (elsewhere measured).	m²	130	
Е	75mm High skirting coved at junction with floor and fair edge and arris next to wall finish.	m	58	
	Carried to collection			

A	Sundries 3 x 40mm Aluminium division strip set in position			
	between different floor finishes.	m	24	
	Carried to collection			

	<u>COLLECTION</u>	PAGE	
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BILL NO.10: PAVINGS, FLOOR C	OVERINGS		
PLASTIC LININGS, ETC CARRIE			

	BILL NO.11		
	PLUMBING (PROVISIONAL)		
	(For Preambles see General Specification)		
	<u>FLASHINGS</u>		
	0.6 mm Galvanised sheet iron as described in:		
А	Flashings and fixing to walls.	m²	67
	RAINWATER DISPOSAL		
	PVC as described in		
A	100 mm Diametre semi-circle section eaves gutter on brackets as described to fascia boards.	m	39
В	100 mm Dia stop ends.	no.	8
С	Extra for angle.	no.	8
D	Ditto outlet with nozzle for and joint to 100 mm Dia rainwater down pipe.	no.	8
Е	100 mm Diameter rainwater pipe fixed 38 mm clear of wall with holderbats.	m	24
F	Extra for shoe.	no.	8
G	Ditto eaves offset.	no.	8
	SANITARY FITTINGS		
Η	510 x 405 mm white glazed vitreous china wash hand basin with concealed brackets, complete with integral overflow, chromium plated outlet, plug and chain, pair of 15 mm chromium plated colour coded pillar taps, bolt to brackets to wall and connect up.	no.	4
	Carried to collection		

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A	Approved low level W.C. Suite comprising white glazed vitreous china pan with "P" trap, plastic double flap seat, 9 litre cistern and white plastic flush pipe, bolt to cistern to wall, fix pan to concrete flooor and connect up.	no.	4	
В	Citi Metal Series single bowl overlay stainless steel sink unit, size 750 x 535mm, complete with integral overflow, chromium plated waste outlet, plug, chain and backnut, with turndown at edge; tap set in position and including fixing one pair of Citi metal 25 x 25 mm galvanised mild steel gallows, square fixing (code SGB)	no.	4	
С	980 x 920 x 1800mm high Shower set comprising aluminium framing, 8mm obsure toughened glass panels (one fixed and two sliding), fitted with top and bottom roller bearings, shower tray, waste outlet, 15 mm chromium colour coded undertile diverter, bridging piece, 900 mm copper riser with chromium plated arm and approved chromium plated rose including chasing into wall and joint one valve to copper pipes.	no.	4	
	<u>Geysers</u>			
D	100 Litre solar geyser roof mounted with electric backup water heater, set up in position and connect up.	no.	4	
	SANITARY PLUMBING			
	"Promat" or equal rigid P.V.C. waste piping with solvent cement and joints and fitting as described			
E	110 mm diameter pipe laid in ground including excavating in trench not exceeding 2 metres deep and fill in and ram and cart off site surplus material.	m	6	
F	50 mm diameter pipe laid under floors	m	10	
G	50 mm diameter pipe fixed to walls.	m	12	
	Carried to collection			

	Extra on P.V.C. piping for		
A	50 mm bend.	no.	12
В	50 mm bend with inspection eye.	no.	12
С	110 mm bend.	no.	4
D	110 mm bend with inspection eye.	no.	3
Е	110mm Inspection junction.	no.	4
F	110mm Reducing junction.	no.	4
G	110 mm Straight pan connector and joint to W.C. pan.	no.	4
Н	110 mm P.V.C. vent cowl and fixing to top of 110 mm diameter pipe.	no.	4
I	Assembled gulley trap with 110 mm diameter outlet connected to drain and gulley head with universal back inlet and removable grate.	no.	4
J	Joint small pipe to gulley.	no.	4
K	Ditto large pipe to gulley.	no.	4
	<u>Traps</u>		
L	32 - 40 mm diameter "Flexitrap" or equal "P" trap and joint to fitting and P.V.C. pipe.	no.	12
	Carried to collection		

	Copper tubing as described		
A	15 mm diameter pipe fixed to walls.	m	6
В	15 mm ditto to walls in and including chase.	m	30
С	20 mm diameter pipe fixed to walls.	m	6
D	20 x 15 mm reducer.	no.	4
Е	15 mm elbow.	no.	12
F	20 mm elbow.	no.	4
G	20 x 15 x 20 mm tee.	no.	4
Н	20 mm socket union.	no.	4
I	15 mm diameter bent connector	no.	12
J	15 mm swivel elbow.	no.	4
K	15 mm socket union.	no.	4
	Carried to collection		

	<u>Brasswork</u>		
A	15 mm diameter brass high pressure screw down stop cock and joints to copper pipe.	no.	12
В	25 mm diameter brass or equal high pressure undertile stopcock, and joint to copper pipe.	no.	4
	PVC pipes as described		
С	22 mm diameter pipe fixed to walls.	m	6
D	22 mm ditto to walls in and including chase.	m	6
Е	22 mm diameter pipe underground.	m	12
F	22 x 20 mm reducer.	no.	1
G	22 mm elbow.	no.	1
н	22 mm socket union.	no.	1
	Carried to collection		

	BUILDER'S WORK IN CONNECTION WITH PLUMBING (PROVISIONAL)			
A	Chase brickwork for small pipe and flush up in cement mortar (1:3).	m	30	
	Hole for small pipe including making good through			
В	Half brick wall.	no.	1	
С	One brick wall.	no.	4	
	Hole for large pipe including making good through			
D	One brick wall.	no.	4	
	TESTING			
E	Allow for the testing of all the Plumber's work to the satisfaction of the Engineers and for the retesting after making good defects.	item	1	
	Carried to collection			

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BILL NO.11: PLUMBING (PRO) CARRIED TO SUMMARY	VISIONAL)		

	BILL NO.12 GLAZING (For Preambles see General Specification)			
	<u>Mirrors</u>			
A	6 mm clear float quality glass silvered and sealed mirror with bevelled edges sprayed on back with clear lacquer before fixing four times drilled for and plugged and screwed to plastered walls with and including chromium plated capped mirror screws and rubber washers, size 600 x 600 mm.	no.	4	
	BILL NO.12: GLAZING CARRIED TO SUMMARY			

	BILL NO.13		
	PAINTING		
	(For Preambles see General Specification)		
	<u>ON PLASTER, ETC</u>		
	Prepare and apply three coats external quality P.V.A. emulsion paint externally on		
A	Fine woodfloat plastered walls.	m²	298
В	Fine woodfloat plastered walls in narrow widths	m²	1
	Prepare and apply three coats internal quality P.V.A. emulsion paint internally on		
С	Steel trowelled plastered walls.	m²	306
D	Ditto in narrow widths.	m²	2
	Prepare and apply three coats internal quality ceiling white PVA paint internally on		
Е	Ceilings	m²	179
	Carried to collection		

				1	1
	<u>ON METAL</u>				
	<u>Clean down, touch up priming coat and apply one undercoat and two finishing coats high gloss enamel paint on</u>				
А	Pressed door frames.	m²	15		
	<u>ON WOOD, ETC</u>				
С	Carbolineum saturate sawn softwood wall plate before fixing.	m²	12		
	Clean down, prime, stop and apply one undercoat and two finishing coats high gloss enamel pain on				
D	General surfaces of doors.	m²	31		
	LEAVE CLEAN				
E	Allow for touching up all work throughout, clean off all paint, oil, cement or other stains or marks, floors, ceilings, glass, etc. and leave all surfaces in full and proper working order.	item			
	Carried to collection				

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<u>BILL NO.13: PAINTING</u> CARRIED TO SUMMARY			

	BILL NO.14			
	SPECIALIST SERVICES			
	(For Preambles see General Specification)			
	PROVISIONAL SUMS			
A	Provide a sum for the supply and delivery of iPhone 13 Pro Max, 128 GB storage, 6 GB ram, 12 months warranty. iPhone procured from an Apple authorised reseller.	no	6	15,000.00
В	Provide the sum of USD 7,000.00 (Seven thousand dollars) for Materials and Compaction Density Testing.	sum	1	7,000.00
	PRICE COST SUMS			
А	Air conditioning	sum	1	7,200.00
В	Add profit	%		
С	Add attendance	%		
D	Fire fighting equipment	sum	1	900.00
Е	Add profit	%		
F	Add attendance	%		
	BILL NO.14: SPECIALIST SERVICES CARRIED TO SUMMARY			

	<u>SUMMARY</u>		
Bill <u>No.</u>	Trade	PAGE	
2	FOUNDATIONS (PROVISIONAL)	24	
3	CONCRETE, FORMWORK AND REINFORCEMENT	26	
4	BRICKWORK	30	
5	ROOF COVERINGS	31	
6	CARPENTRY	32	
7	JOINERY AND IRONMONGERY	35	
8	METALWORK	36	
9	PLASTERING AND WALL LININGS	39	
10	PAVINGS, FLOOR COVERINGS, PLASTIC LININGS, ETC	42	
11	PLUMBING (PROVISIONAL)	49	
12	GLAZING	50	
13	PAINTING	53	
14	SPECIALIST SERVICES	54	
	CARRIED TO MAIN SUMMARY		

SECTION 3 - BOUNDARY WALL (PROVISIONAL)

	BILL NO.2		
	FOUNDATIONS (PROVISIONAL)		
	(For Preambles see General Specification)		
	<u>Note</u> : Foundations have been measured to top of surface bed.		
	SITE CLEARANCE		
A	Cut down and remove tree exceeding 500 and not exceeding 1000 mm girth measured 1000 mm above ground level including grubbing up roots and filling in holes.	no	R/O
	EXCAVATION		
	Pumping and bailing		
В	Allow for the keeping excavations free of storm, surface and mud by pumping and bailing.	item	1
С	Excavate over site to remove vegetable soil average 150 mm deep and deposit on site not exceeding 100 metres.	m²	354
D	Disposal of topsoil	m³	53
	Excavate in pickable earth for		
Е	Surface trenches not exceeding 2 metres deep.	m³	166
F	Extra over excavation in pickable material for excavation in hard pickable material.	m³	25
G	Ditto excavation in rock.	m³	17
	Planking and strutting		
Н	Allow for maintaining and supporting sides of all excavations and making good all slips.	m²	588
	Carried to collection		

DisposalLARedig from spoil heap, return, fill and well compact selected excavated material around foundations to 95% L.C.E. density.m³BRedig from spoil heap and cart off site.m³BRedig from spoil heap and cart off site.m³
compact selected excavated material around foundations to 95% L.C.E. density. m ³ 80
B Redig from spoil heap and cart off site. m ³ 86
Formation
C Scarify ground to a depth of 150 mm and compact to 95% L.C.E. density. m ² 275
PAIN CONCRETE
Concrete (Grade 30MPa) in
D Footings. m ³ 64
Sundries
E Strike off and cure top of concrete. m ² 275
Carried to collection

	BRICKWORK			
	Brickwork in approved common bricks in cement mortar as described			
A	One brick wall.	m²	264	
В	One brick x one brick attached pier.	m³	14	
	Reinforcement			
	Brickforce lapped at joints and junctions and building in as the work proceeds (measured nett)			
С	Ref. C2 in one brick walls.	m	1040	
	<u>Sundries</u>			
	20 mm "Kaylite" or other equal and approved joint filler between brick faces in narrow widths not exceeding 300mm wide	m²	29	
	Carried to collection			

I		I	
COLLECTION		PAGE	
		56	
		57	
		58	
BILL NO.2: FOUNDATIONS (PROVISIONAL)			
CARRIED TO SUMMARY			
I	I	I	

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			I
	BILL NO. 4		
	BRICKWORK		
	(For Preambles see General Specification)		
	BRICKWORK		
	Brickwork in approved common bricks or similar approved in cement mortar as described		
А	One brick wall.	m²	695
В	One brick x one brick attached pier.	m³	35
	DAMP PROOF COURSE		
	One layer of three ply bituminous felt sheeting as damp proof course as described, well lapped at joints and junctions (measured nett)		
С	On one brick walls.	m²	89
D	Under precast concrete copings.	m²	89
	REINFORCEMENT		
	Brickforce lapped at joints and junctions and bedding in as the work proceeds (measured nett)		
Е	Ref. C2 in one brick walls.	m	2043
	Expansion Joint		
F	20mm Kaylite or equal approved joint filler between brickwork in narrow widths.	m²	75
	<u>Sundries</u>		
G	Providing weep holes in brick masonry with 100mm dia PVC pipe, extending through the full width of structure with a slope (as per Eng. instruction). BILL NO.4: BRICKWORK CARRIED TO SUMMARY	item	1

	BILL NO.5		
	<u>METALWORK</u>		
	(For Preambles see General Specification)		
	STEEL GATES (PROVISIONAL)		
A	Supply and fix steel cladded electric powered sliding gate, painted both sides with corrosive resistant paint, wheels, electric motor, locking devices, accessories etc executed complete size 3000 x 2340mm high. no	2	
	BILL NO.5: METALWORK CARRIED TO SUMMARY		

	BILL NO.6		
	PLASTERING AND WALL LININGS		
	(For Preambles see General Specification)		
	EXTERNALLY		
	One coat cement plaster (1:4) as described including all labours with a fine woodfloat finish on		
A	Walls.	m²	1390
В	Ditto in narrow widths.	m²	75
	BILL NO.6: PLASTERING AND WALL LININGS CARRIED TO SUMMARY		

	I		
	BILL NO.7		
	PAINTING		
	(For Preambles see General Specification)		
	<u>ON PLASTER, ETC</u>		
	Prepare and apply three coats external quality P.V.A. emulsion paint externally on		
A	Fine woodfloat plastered walls.	m²	1390
В	Fine woodfloat plastered walls in narrow widths ditto.	m²	75
	LEAVE CLEAN		
С	Allow for touching up all work throughout, clean of all paint, oil, cement or other stains or marks, floors, ceilings, glass, etc. and leave all surfaces in full and proper working order.	f item	1
	BILL NO.7: PAINTING CARRIED TO SUMMARY		

	BILL NO.8				
	SPECIALIST SERVICES				
	(For Preambles see General Specification)				
	PROVISIONAL SUMS				
A	Provide a sum of US\$8,000.00 for electrical installations and fittings, etc.	ım	1	10,000.00	
	BILL NO.8: SPECIALIST SERVICES CARRIED TO SUMMARY				
	l				

	I I		
<u>BILL</u> <u>No.</u>		PAGE	
2	FOUNDATIONS (PROVISIONAL)	59	
3	CONCRETE, FORMWORK AND REINFORCEMENT	60	
4	BRICKWORK	61	
5	METALWORK	62	
6	PLASTERING AND WALL LININGS	63	
7	PAINTING	64	
8	SPECIALIST SERVICES	65	
	TOTAL CARRIED TO MAIN SUMMARY		

SECTION 4 - CIVIL WORKS AT STAND 7430

ITEM No		UNIT	QNTY	RATE	AMOUNT
	BILL NO.2				
B1	ROADS AND STORMWATER				
B1.1	Subgrade Clearing within designated area including removal from site of all rubbish and trees up to 1m girth	m ²	870		
B1.2	Remove trees and stumps of girth more than 1m, including stacking and grubbling roots.	No	3		
B1.3	Remove topsoil to a depth of 150mm from the designated area ,spread to waste within 0.5km free haul within 0.5km free haul.	m ³	130.50		
B1.4	Excavate/cut in all unsuitable material below formation level,dump to waste within 0.5km free haul.Maximum depth to be 150mm	m ³	130.50		
B1.5	Excavate for removal of anthills and backfilling.	m ³	15		
B1.6	Allow for poisoning of anthills using an approved antkiller at the specialist's specified rate	Sum	1		
B1.7	Extra over items B1.4 and B1.5 for i) intermediate excavation ii) rock excavation	m ³ m ³	15 1		
B1.8	Take suitable material from cut,dump and spread in layers not exceeding 200mm loose thickness and compact as specified for fills to 93% Mod AASHTO.Borrow from cut sections on site to fill in approved SG5 or better material.	m ³			
B1.9	Allow for sourcing, hauling, dumping, spreading, watering and compacting SG5 or better material from the most convenient and economical municipal borrow pits in fill areas to 93% Mod AASHTO(only when cut material is insufficient to cover fill areas.)	m ³	15		
B1.10	Scarify/rip, water, mix, trim and compact upper 150mm of road formation to form subgrade for roadbed and car parks to not less than 93%Mod.AASHTO	m ³	130.50		
B1.11	Allow for rock blasting and carting away to within 0.5km from site	m ³	15		
	Total carried forward	L			

ITEM No		UNIT	QNTY	RATE	AMOUNT
	Total brought forward				
	Pavement				
	There will be no pavement material obtainable on site. The				
	contractor is to source all imported material from commercial				
	or own sources to the best price advantage.Allow for sourcing				
	and base 1,2 and 3 gravel material from nearest municipal				
	gravel borrow pits and dump along road formation or carpark,				
	volume measured as compacted.				
B2.1	Gravel Base (150mm) material, class 3.0 including spreading,				
	watering, mixing and compacting in 150mm layers to 98%				
	mod AASHTO	m^3	130.50		
B2.2	Gravel Base 2(150mm) material, class 3.0 including spreading, watering, mixing and compacting in 150mm layers to 96%				
		m ³	120.50		
	mod AASHTO	III	130.50		
B2.3	Gravel Base 1(150mm thick), class 3.3 from commercial				
	source, including spreading, watering, mixing and compacting				
	to 98% mod AASHTO	m ³	130.50		
B3	G-Block Surfacing				
B3.1	Supply, spread and compact 50mm Quarry Dust	m^3	44		
D 5.1	Suppry,spread and compact somming durry Dust				
B3.2	Supply and lay 80mm heavy duty interlocking pavers	m^2	43500		
D2.2		m ³	10		
B3.3	Sand cover as may be ordered by the Engineer	m	10		
B4	Culverts(Pipes)				
B4.1	Excavation for pipe culverts	m^3	3		
B4.2	Extra over item B4.1, Supply and install Class S standard				
D4.2	reinforced stormwater pipes with interlockin Ogee joints for				
	underground drainage pipes and culverts.				
	i.450mm diameter	no	4		
	ii.600mm diameter	no			
D ()					
B4.3	Concrete to haunches, surrounds and foundation for brick headwalls				
		m ³	0.2		
	i.Grade 10 to haunches	m^3	0.3		
	ii.Grade 20 to surrounds and foundations.	m	2		
B4.4	Supply and construct 230mm brick head walls	m^2	5		
B4.5	Stone pitching to the end of the pipe	m^2	8		
B5	Traffic Signs				
вз В5.1	"Stop Signs"	No	1		
20.1	2.5F 3.8.5	1.0			
					ļ
	Total carried forward				

ITEM No		UNIT	QNTY	RATE	AMOUNT
	Total brought forward				\$-
B6	Carriageway markings				
B6.1	Carriageway markings as directed onsite:				
	i.Markings in reflective white paint	m ²	5		
	ii.Shoulder markings in reflective yellow paint	m ²	10		
			-		
B7	Kerbing				
B7.1	Supply and lay where shown on the drawing or as directed				
	kerbing including excavation and concrete bedding, jointing,				
	haunching ,backfilling behind kerb and painting in alternative black and white PVA,two coats.				
	i.Municipal kerbing	m	410		
	ii.Rollover kerbing	m	15		
	Total carried to summary				\$-

ITEM No	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
С	BILL NO.3 WATER RETICULATION				
C1.0 C1.1	Site Clearance Clear vegetation and trees of girth up to 1m(width of line maximum 2m)	m²	98		
C2.0 C2.1	Excavation Excavation in all materials for trenches backfill and compact depth between 0.5m-1.5m for pipes	3			
	i)32mm PVC class 12 pipes	m ³	10		
C2.2	Extra-over all excavations For i)Hard material excavations ii)Hard rock excavations	m ³ m ³	2 2		
C3.0 C3.1	Pipe Bedding Supply and place bedding material as directed by Engineer and measured compacted for i)Selected granular/sand material	m ³	2		
	ii) Selected backfill material(non-expansive)obtained from within the siteiii) Selected backfill material imported from	m ³	2		
	borrow pits elsewhere	m ³ /km			
C3.2	Allow for alternative concrete bedding under roadways and shallow areas,				
	i) Grade 10 concreteii) Grade 15 concrete	m ³ m ³			
C3.3	Allow for carting away and disposing of unsuitable or surplus material from trench	m ³ /km	4		
C3.4	Allow for pumping of trenches to remove excess water in excavations	sum	1		
C4.0 C4.1	Pipe Laying Supply,handle, and lay Pvc pipes complete with fluid-tite joints: i.32mm PVC class 12 pipes	m	98		
C5.0	Fittings Supply,lay,bed and joint,including cut pipes to length where required,test and include for CISC joints Supply and fix the following fittings:				
C5.1	Gate valves clockwise closing 32mm PVC class 12 pipes	No			
	Total carried forward				

C5.2 Supply ar including i.32mm d	ought forward ad install underground Fire Hydrants as detailed GMS pipework and Hydrant valve				
including i.32mm d	GMS pipework and Hydrant valve				
including i.32mm d	GMS pipework and Hydrant valve				
i.32mm d					
		No	1		
		110	-		
C5.3 PVC Ben	ds				
32*90 de	gree bends	No	1		
C5.4 PVC tees		N-			
32mm*32	emm equal tees.	No			
C5.5 End Caps					
32mm dia		No	1		
	d fix precast chambers as detailed for the				
	fittings with C.I covers				
i.Gate val		No	1		
ii.Fire hyd	Irant	No	1		
C5.7 Supply ar	d fix marker posts for the following fittings				
as detaile					
i.Gate val	ves	No			
ii.Fire hyd	lrant	No	1		
G5 0 A 11					
C5.8 Allow a p specified	rovisional sum for any other fittings not	SUM	1		
specified	above	SUM	1		
C5.9 Allow for	connections to internal reticulation, complete				
1	d excluding saddles.				
32mm sin	gle stand connection	No			
C6.0 Ancillari					
where rec	hrust blocks and pedestals including formwork				
Grade 20		m ³	0.5		
Glade 20			0.5		
C7.0 Pressure	testing of water mains				
	all costs for pressure testing as specified or				
	by the Engineer				
Engineer.		SUM	1		
C8.0 Disinfect	pipelines				
	all cost of flushing and sterilizing of pipelines				
	ed or directed by the Engineer.	SUM	1		
	connection into existing pipelines including				
all munic	pal charges and connection fees	SUM	1		
Total car	ried to summary		·	•	

ITEM No		UNIT	QNTY	RATE	AMOUNT
	BILL NO.4				
D	SEWER RETICULATION				
D1.0	Site Clearance				
D1.0 D1.1	Clear vegetation and trees of girth up to 0.5m(width of				
D1.1	to 0.5m (width of line maximum 1.5m)	m^2	28		
			20		
D1.2	Extra over item D1.1 for trees with girth over 0.5m	no			
D2.0	Excavation				
D2.1	Excavate in all materials for trenches backfill and compact	2			
	for depth up to 2m	m ³	23		
D2.2	Extra over all excavations for:				
D2.2		m ³	_		
	i.Hard material excavation	m^{3}	5		
	ii.Hard rock excavation	m	5		
D3.0	Pipe bedding				
D3.1	Allow for supplying and placing bedding material				
	for all sewer pipes measured compacted.				
	i)Selected granular/sand material	m ³	3		
	ii) Selected backfill material available on site.	m ³	4		
	iii)Selected backfill material imported from				
	borrow pits elsewhere	m ³			
D3.2	Concrete bedding or concrete surround including formwork				
	and compacting for shallow pipework under roads.	3			
	i) Grade 10 concrete sorround	m^3			
	ii) Grade 15 concrete sorround	m ³			
D3.3	Allow for carting away excess and unsuitable material				
D3.5	from trenches	m ³ /km	7		
	nom uchenes	III / KIII	/		
D4.0	Pipework				
	Supply, lay, bed, joint and test sewer pipes:Bed Class to be				
	determined by Engineer on site				
D4.1	PVC sewer pipes		FC		
	i) 110mm diam.	m	56		
D5.0	Construction of Manholes				
D5.0	Allow for supplying and pouring G20 concrete for manhole				
	slabs including for making good benching and channels				
	with smooth finish.	m ³	0.6		
D5.2	Supply and fix 900*300mm precast manhole rings and ensure				
	water tight joints for manholes exceeding 1.5m deep.	no	9		
D5.3	Supply and fix stepping irons for deep				
05.5	manholes.(each stepping iron)	no	9		
	inamores.(each stepping non)	110			
<u> </u>	Total carried forward			1	
					1

ITEM No	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Total brought forward				
D5.4	Supply and install precast concrete manholes slabs complete with cover and frames(915mm dia) for i) Heavy duty manhole covers ii) Ordinary manhole covers	no no	3		
D6.0 D6.1	Sundries Test Manholes for water tightness	No	3		
D6.2	Break into and connect into existing sewer line including flexible joints and make good all benching at the connection point.	SUM	1		
D6.3	Allow for pumping of trenches to remove excess water	SUM	1		
	Total carried to summary	<u> </u>			

ITEM No DESCRIPTION

COST ESTIMATES FOR CIVIL WORKS

SECTION	DESCRIPTION		AMOUNT
BILL A	PRELIMENARY& GENERAL		
BILL B	ROADS AND STORMWATER		
BILL C	WATER RETICULATION		
BILL D	SEWER RETICULATION		
	TOTAL CARRIED TO MAIN SUMMARY		

SECTION 5 - CIVIL WORKS AT STAND 7353

ITEM No		UNIT	QNTY	RATE	AMOUNT
	BILL NO.2				
B1	ROADS AND STORMWATER				
B1.1	Subgrade Clearing within designated area including removal from	2			
	site of all rubbish and trees up to 1m girth	m ²	1100		
B1.2	Remove trees and stumps of girth more than 1m, including stacking and grubbling roots.	No	5		
B1.3	Remove topsoil to a depth of 150mm from the designated area ,spread to waste within 0.5km free haul within 0.5km free haul.	m ³	165		
B1.4	Excavate/cut in all unsuitable material below formation level,dump to waste within 0.5km free haul.Maximum depth to be 150mm	m ³	165		
			105		
B1.5	Excavate for removal of anthills and backfilling.	m ³	15		
B1.6	Allow for poisoning of anthills using an approved antkiller at the specialist's specified rate	Sum	1		
B1.7	Extra over items B1.4 and B1.5 for				
	i) intermediate excavation	m ³	10		
	ii) rock excavation	m ³	10		
B1.8	Take suitable material from cut,dump and spread in layers not exceeding 200mm loose thickness and compact as specified for fills to 93% Mod AASHTO.Borrow from cut sections on site to fill in approved SG5 or better material.	m ³			
B1.9	Allow for sourcing, hauling, dumping, spreading, watering and compacting SG5 or better material from the most convenient and economical municipal borrow pits in fill areas to 93% Mod AASHTO(only when cut material is insufficient to cover fill areas.)	m ³	30		
B1.10	Scarify/rip, water, mix, trim and compact upper 150mm of road formation to form subgrade for roadbed and car parks to not less than 93%Mod.AASHTO	m ³	165		
B1.11	Allow for rock blasting and carting away to within 0.5km from site	m ³	15		
	Total carried forward				

ITEM No		UNIT	QNTY	RATE	AMOUNT
	Total brought forward				
	Pavement				
	There will be no pavement material obtainable on site. The				
	contractor is to source all imported material from commercial				
	or own sources to the best price advantage.Allow for sourcing				
	and base 1,2 and 3 gravel material from nearest municipal				
	gravel borrow pits and dump along road formation or carpark,				
	volume measured as compacted.				
B2.1	Gravel Base (150mm) material, class 3.0 including spreading,				
	watering, mixing and compacting in 150mm layers to 98%				
	mod AASHTO	m ³	165		
B2.2	Gravel Base 2(150mm) material, class 3.0 including spreading,	l			
	watering, mixing and compacting in 150mm layers to 96%	m ³	1.65		
	mod AASHTO	m	165		
B2.3	Gravel Base 1(150mm thick), class 3.3 from commercial				
	source, including spreading, watering, mixing and compacting				
	to 98% mod AASHTO	m ³	165		
B3	G-Block Surfacing				
B3.1	Supply, spread and compact 50mm Quarry Dust	m^3	55		
2011					
B3.2	Supply and lay 80mm heavy duty interlocking pavers	m^2	57000		
B3.3	Sand cover as may be ordered by the Engineer	m^3	10		
D 5.5	Sand cover as may be ordered by the Engineer		10		
B4	Culverts(Pipes)	2			
B4.1	Excavation for pipe culverts	m^3	3		
B4.2	Extra over item B4.1, Supply and install Class S standard				
52	reinforced stormwater pipes with interlockin Ogee joints for				
	underground drainage pipes and culverts.				
	i.450mm diameter	no	4		
	ii.600mm diameter	no			
B4.3	Concrete to haunches, surrounds and foundation for brick				
2 110	headwalls				
	i.Grade 10 to haunches	m ³	0.3		
	ii.Grade 20 to surrounds and foundations.	m ³	2		
B4.4	Supply and construct 230mm brick head walls	m^2	5		
B4.5	Stone pitching to the end of the pipe	m^2	8		
B5	Traffic Signs	Na	1		
B5.1	"Stop Signs"	No	1		
	Total carried forward	·	•	-	

ITEM No	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Total brought forward				
DC					
B6 B6.1	Carriageway markings Carriageway markings as directed onsite:				
D0.1	i.Markings in reflective white paint	m^2	5		
		m^2			
	ii.Shoulder markings in reflective yellow paint	III	10		
B7	Kerbing				
B7.1	Supply and lay where shown on the drawing or as directed				
	kerbing including excavation and concrete bedding, jointing,				
	haunching ,backfilling behind kerb and painting in alternative				
	black and white PVA,two coats.				
	i.Municipal kerbing	m	15		
	ii.Rollover kerbing	m	260		
	Total carried to summary				
	Total carried to summary				

ITEM No	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
С	BILL NO.3 WATER RETICULATION				
C1.0 C1.1	Site Clearance Clear vegetation and trees of girth up to 1m(width of line maximum 2m)	m²	196		
C2.0 C2.1	Excavation Excavation in all materials for trenches backfill and compact depth between 0.5m-1.5m for pipes	m ³	20		
	i)32mm PVC class 12 pipes	m	20		
C2.2	Extra-over all excavations For i)Hard material excavations ii)Hard rock excavations	m ³ m ³	10 10		
C3.0 C3.1	Pipe Bedding Supply and place bedding material as directed by Engineer and measured compacted for i)Selected granular/sand material	m ³	5		
	ii) Selected backfill material(non-expansive)obtained from within the siteiii) Selected backfill material imported from	m ³	5		
	borrow pits elsewhere	m ³ /km			
C3.2	Allow for alternative concrete bedding under roadways and shallow areas,				
	i) Grade 10 concreteii) Grade 15 concrete	m^3 m^3			
C3.3	Allow for carting away and disposing of unsuitable or surplus material from trench	m ³ /km	10		
C3.4	Allow for pumping of trenches to remove excess water in excavations	sum	1		
C4.0 C4.1	Pipe Laying Supply,handle, and lay Pvc pipes complete with fluid-tite joints: i.32mm PVC class 12 pipes	m	98		
C5.0	Fittings Supply,lay,bed and joint,including cut pipes to length where required,test and include for CISC joints Supply and fix the following fittings:				
C5.1	Gate valves clockwise closing 32mm PVC class 12 pipes	No			
	Total carried forward				

ITEN	M No	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
		Total brought forward				
C.	5.2	Supply and install underground Fire Hydrants as detailed				
		including GMS pipework and Hydrant valve i.32mm diameter	No	1		
		1.52mm diameter	No	1		
C	5.3	PVC Bends				
	0.0	32*90 degree bends	No	1		
C.	5.4	PVC tees				
		32mm*32mm equal tees.	No			
~						
C.	5.5	End Caps				
		32mm dia	No	1		
C	5.6	Supply and fix precast chambers as detailed for the				
	5.0	following fittings with C.I covers				
		i.Gate valves	No			
		ii.Fire Hydrant	No	1		
C.	5.7	Supply and fix marker posts for the following fittings				
		as detailed.				
		i.Gate valves	No			
		ii.Fire Hydrant	No	1		
	5 0					
C:	5.8	Allow a provisional sum for any other fittings not	CIM	1		
		specified above	SUM	1		
	5.9	Allow for connections to internal reticulation, complete				
0.	0.7	as detailed excluding saddles.				
		32mm single stand connection	No			
	6.0	Ancillaries				
C	6.1	Anchor/Thrust blocks and pedestals including formwork				
		where required:	3			
		Grade 20 concrete	m ³	0.5		
	7.0	Description of the second				
	7.0 7.1	Pressure testing of water mains Allow for all costs for pressure testing as specified or				
	/.1	directed by the Engineer				
		Engineer.	SUM	1		
			Sem	1		
C	8.0	Disinfect pipelines				
C	8.1	Allow for all cost of flushing and sterilizing of pipelines				
		as specified or directed by the Engineer.	SUM	1		
	o c					
C	8.2	Allow for connection into existing pipelines including	CLDA	1		
1		all municipal charges and connection fees	SUM	1		
1						
		Total carried to summary				
		rour curricu to summary				I

ITEM No		UNIT	QNTY	RATE	AMOUNT
	BILL NO.4				
D	SEWERAGE RETICULATION				
D1.0	Site Clearance				
D1.0 D1.1	Clear vegetation and trees of girth up to 0.5m(width of				
D1.1		m^2	1(2)		
	to 0.5m (width of line maximum 1.5m)	III	162		
D1.2	Extra over item D1.1 for trees with girth over 0.5m	no			
D1.2		110			
D2.0	Excavation				
D2.1	Excavate in all materials for trenches backfill and compact				
	for depth up to 2m	m ³	54		
D2.2	Extra over all excavations for:	2			
	i.Hard material excavation	m ³	5		
	ii.Hard rock excavation	m ³	5		
D3.0	Pipe bedding				
D3.1	Allow for supplying and placing bedding material				
	for all sewer pipes measured compacted.	m ³	_		
	i)Selected granular/sand material	m^3	5		
I	ii) Selected backfill material available on site.	m	8		
	iii)Selected backfill material imported from	m ³			
	borrow pits elsewhere	III			
D3.2	Concrete bedding or concrete surround including formwork				
05.2	and compacting for shallow pipework under roads.				
	i) Grade 10 concrete sorround	m ³			
	ii) Grade 15 concrete sorround	m ³			
D3.3	Allow for carting away excess and unsuitable material				
	from trenches	m ³ /km	13		
D4.0	Pipework				
	Supply, lay, bed, joint and test sewer pipes:Bed Class to be				
	determined by Engineer on site				
D4 1	DVC souver pipes				
D4.1	PVC sewer pipes i) 110mm diam.	m	108		
		111	100		
D5.0	Construction of Manholes				
D5.1	Allow for supplying and pouring G20 concrete for manhole				
	slabs including for making good benching and channels				
	with smooth finish.	m ³	1.5		
D5.2	Supply and fix 900*300mm precast manhole rings and ensure				
	water tight joints for manholes exceeding 1.5m deep.	no	24		
D5 2	Supply and fix stanning image for dam				
D5.3	Supply and fix stepping irons for deep manholes.(each stepping iron)	no	24		
		no	24		
	Total carried forward	1	1	L	
L					

ITEM No	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Total brought forward				
D5.4	Supply and install precast concrete manholes slabs complete with cover and frames(915mm dia) for i) Heavy duty manhole covers ii) Ordinary manhole covers	no no	6		
D6.0	Sundries				
D6.1	Test Manholes for water tightness	No	6		
D6.2	Break into and connect into existing sewer line including flexible joints and make good all benching at the connection point.	SUM	1		
D6.3	Allow for pumping of trenches to remove excess water	SUM	1		
	Total carried to summary	I	l	1	

ITEM No DESCRIPTION

UNIT QNTY RATE AMOUNT

COST ESTIMATES FOR CIVIL WORKS

SECTION	DESCRIPTION		AMOUNT
BILL A	PRELIMENARY& GENERAL		
BILL B	ROADS AND STORMWATER		
BILL C	WATER RETICULATION		
BILL D	SEWER RETICULATION		
	TOTAL CARRIED TO MAIN SUMMARY	-	

SECTION 6 - ELECTRICAL WORKS

MINISTRY OF LOCAL GOVERNMENT & PUBLIC WORKS



DEPARTMENT OF ENGINEERING SERVICES

ELECTRICAL BILLS OF QUANTITES

FOR

PROPOSED ZIMRA FORBES BORDER POST STAFF ACCOMODATON

MUTARE

IN

ZIMBABWE

09 MARCH 2022

ZIMRA Forbes Border Post Staff Accommodation Electrical Bills of Quantities

ltem	Description	Unit	Qty [A]	Unit Price US\$	Rate/Installed [B] US\$	Total Installed Price [B x A] US\$
1.1.1	3 Phase Weatherproof Lockable Distribution Feeder Pillar c/w main switch, trunking, switch gear and pre-paid metering accessories [See Dwg. No 192512/E/02]	Nos	1			
1.1.2	Flush Mounted Lockable Sub Distribution Board [DB] wired c/w switch gear [See Dwg. No 192512/E/02]	Nos	4			
1.1.3	45A 6' x 6' MK or similar approved type Cooker Control Unit c/w flush mounting metal box and accessories	Nos	4			
1.1.4	35sqmm 4C PVCSWAPVC CAFCA or similar approved type cable [Provisional Length]	m	50			
1.1.5	16sqmm 3C PVCSWAPVC CAFCA or similar approved type cable	m	80			
1.1.6	No. 3 Cable gland and shroud	Nos	8			
1.1.7	No. 5 Cable gland and shroud	Nos	6			
1.1.8	6sqmm CAFCA or similar approved type s/c cable red	100m roll	0.3			
1.1.9	6sqmm CAFCA or similar approved type s/c cable black	100m roll	0.3			
1.1.10	2.5sqmm CAFCA or similar approved type s/c cable red	100m roll	8			
1.1.11	2.5sqmm CAFCA or similar approved type s/c cable black	100m roll	8			
1.1.12	1.5sqmm CAFCA or similar approved type s/c cable red	100m roll	7			

ltem	Description	Unit	Qty [A]	Unit Price US\$	Rate/Installed [B] US\$	Total Installed Price [B x A] US\$
1.1.13	1.5sqmm CAFCA or similar approved type s/c cable black	100m roll	5			
1.1.14	2.5sqmm CAFCA or similar approved type SBCC	m	600			
1.1.15	6sqmm CAFCA or similar approved type SBCC	m	30			
1.1.16	25sqmm CAFCA or similar approved type SBCC [Provisional Length]	m	50			
1.1.17	1.4m earth rod c/w clamp	Nos	1			
1.1.18	10A 3' x 3' MK or similar approved type shaver socket outlet	Nos	4			
1.1.19	10A 3' x 3' MK or similar approved type extract fan isolator	Nos	4			
1.1.20	20A 3' x 3' MK or similar approved type air- conditioning isolator	Nos	4			
1.1.21	13A 6' x 3' MK or similar approved type double switched socket outlet	Nos	30			
1.1.22	15A 3' x 3' MK or similar approved type single switched socket outlet	Nos	4			
1.1.23	5A 3' x 3' MK or similar approved type one gang one-way switch	Nos	16			
1.1.24	5A 3' x 3' MK or similar approved type two gang one-way switch	Nos	12			
1.1.25	20mm PROPLASTICS or similar approved type pvc conduit	4m length	50			
1.1.26	32mm CLASS E PROPLASTICS or similar approved type PVC duct	6m length	2			

ltem	Description	Unit	Qty [A]	Unit Price US\$	Rate/Installed [B] US\$	Total Installed Price [B x A] US\$
1.1.27	75mm CLASS E PROPLASTICS or similar approved type PVC duct	6m length	10			
1.1.28	75mm CLASS E PROPLASTICS or similar approved type PVC 90 degree bend	Nos	4			
1.1.29	20mm PROPLASTICS or similar approved type PVC nipples	Nos	100			
1.1.30	20mm PROPLASTICS or similar approved type PVC couplings	Nos	200			
1.1.31	3' x 3' PROPLASTICS or similar approved type PVC boxes	Nos	50			
1.1.32	6' x 3' boxes	Nos	30			
1.1.33	PROPLASTICS or similar approved type PVC round boxes	Nos	100			
1.1.34	PROPLASTICS or similar approved type PVC extension round boxes	Nos	50			
1.1.35	20mm BE saddles	Nos	100			
1.1.36	4.0 x 35mm wood screws	Вох	3			
1.1.37	500ml solvent cement	500mls bottle	3			
1.1.38	20mm Sprague tube	m	16			
1.1.39	20mm Sprague tube connectors	Nos	8			
1.1.40	20mm dome cover	Nos	4			
1.1.41	S6 fisher plugs	Вох	2			
1.1.42	Insulation tape	Rolls	3			
1.1.43	Perforated copper bonding strip	М	25			
1.1.44	15x20mm Veranda Bolts and Nuts	Nos	50			

ltem	Description	Unit	Qty [A]	Unit Price US\$	Rate/Installed [B] US\$	Total Installed Price [B x A] US\$
1.1.45	Cable Warning tape [Provisional length]	m	150			
1.1.46	Cable Warning tile	Nos	4			
1.1.47	Type 1 - 1 x 15W Ceiling Mounted Round Bulkhead Light Fitting c/w 15W Led Bulb	Nos	12			
1.1.48	Type 2 - 1 x 11W Weatherproof Ceiling Mounted Round Bulkhead Light Fitting c/w 11W Led Bulb	Nos	4			
1.1.49	Type 3 - 1 x 15W Wall Mounted Round Bulkhead Light Fitting c/w 15W Led Bulb	Nos	4			
1.1.50	Type 4 - 1 x 11 Wall Mounted Round Bulkhead Light Fitting c/w 11W Led Bulb	Nos	4			
1.1.51	Any other accessories required to complete the installation [Itemise]	Lot	1			
	SUBTOTAL					
	ADD PROVISION FOR ZESA CONNECTON					500.00
	LIASON WITH ZESA FOR POWERT CONNECTION					
	TOTAL COST OF ELECTRICAL WORKS					

SECTION 7 - MAIN SUMMARY

SECTION	MAIN SUMMARY	PAGE	<u>QTY</u>	<u>AMOUNT</u>
1	PRELIMINARIES AND GENERALS	19	1	
2	STAFF COTTAGES	54	4	
3	BOUNDARY WALL (PROVISIONAL)	66	1	
4	CIVIL WORKS AT STAND 7430	74	1	
5	CIVIL WORKS AT STAND 7353	82	1	
6	ELECTRICAL WORKS	-	1	
	SUB-TOTAL A			
	Add 10% CONTIGENCY			
	SUB-TOTAL B			
	Add 14.5% VAT			
	Signature of Contractor Date			
	τοται σαρμέντο έορμ οτ			
	TOTAL CARRIED TO FORM OF TENDER			