



REPUBLIC OF
KENYA

PROPOSED CONSTRUCTION OF CBC CLASSROOM

BILLS OF
QUANTITIES

PREPARED BY:

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APRIL, 2024

BILL NO.1
PARTICULAR
PRELIMINARIES

BILL NO.2
GENERAL
PRELIMINARIES

ITEM	DESCRIPTION	AMOUNT
	<p data-bbox="293 211 703 246"><u>GENERAL PRELIMINARIES</u></p> <p data-bbox="253 289 1170 323">A PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES</p> <p data-bbox="293 368 1224 443">Prices will be inserted against items of Preliminaries in the Contractor's priced Bills of Quantities and Specification.</p> <p data-bbox="293 448 1290 593">The Contractor shall be deemed to have included in his prices or rates for the various items in the Bills of Quantities or Specification for all costs involved in complying with all the requirements for the proper execution of the whole of the works in the Contract.</p> <p data-bbox="253 682 556 717">B ABBREVIATIONS</p> <p data-bbox="293 722 1058 792">Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows:-</p> <p data-bbox="293 797 888 832">C.M. Shall mean cubic metre</p> <p data-bbox="293 872 900 907">S.M. Shall mean square metre</p> <p data-bbox="293 946 958 981">L.M. Shall mean linear metre MM</p> <p data-bbox="293 1021 946 1056">Shall mean Millimetre Kg. Shall</p> <p data-bbox="293 1096 896 1131">mean Kilogramme No. Shall</p> <p data-bbox="293 1171 475 1206">mean Number</p> <p data-bbox="293 1246 776 1280">Prs. Shall mean Pairs</p> <p data-bbox="293 1320 1240 1450">B.S. Shall mean the British Standard Specification Published by the British Standards Institution, 2 Park Street, London W.I., England.</p> <p data-bbox="293 1455 1139 1530">Ditto Shall mean the whole of the preceding description except as qualified in the description in which it occurs.</p> <p data-bbox="293 1569 1051 1604">m.s. Shall mean measured separately. a.b.d</p> <p data-bbox="293 1644 699 1679">Shall mean as before described.</p>	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	<p>SUFFICIENCY OF TENDER</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. Rates and prices quoted shall cover all his obligations under the contract and all matters and things necessary for the proper completion and maintenance of the works</p> <p>RECORDS</p> <p>B The Contractor shall ensure proper records are kept and maintained for : Daily Reports on Personnel and Machinery; tracked programme; site photographs in digital camera; weather charts/reports; site instruction book and query book. a digital camera shall be provided for taking progress photos</p> <p>PLANT, TOOLS AND VEHICLES</p> <p>C Allow for providing all scaffolding, plant, tools and vehicles required for the works except in so far as may be stated otherwise herein and except for such items specifically and only required for the use of nominated Sub-Contractors as described herein. No timber used for scaffolding, formwork or temporary works of any kind shall be used afterwards in the permanent work.</p> <p>TRANSPORT.</p> <p>Allow for transport of workmen, materials, etc., to and from the site at such hours and by such routes as may be permitted by the competent</p> <p>D authorities.</p>	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	<p>MATERIALS AND WORKMANSHIP.</p> <p>All work is to be carried out in accordance with the Ministry of Works General Specifications for Building Works, 1976 Edition together with any amendments thereto.</p> <p>All materials and workmanship used in the execution of the work shall be of the best quality and description unless otherwise stated. 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 they are onsite when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials.</p>	
B	<p>SIGN FOR MATERIALS SUPPLIED.</p> <p>The Contractor will be required to sign a receipt for all articles and materials supplied by the CLIENT at the time of taking deliver thereof, as having received them in good order and condition, and will thereafter be responsible for any loss or damage and for replacements of any such loss or damage with articles and/or materials which will be supplied by the CLIENT at the current market prices including Customs Duty and V.A.T., all at the Contractor's own cost and expense, to the satisfaction of the PROJECT MANAGER</p> <p>STORAGE OF MATERIALS</p>	
C	<p>The Contractor shall provide at his own risk and cost where directed on the site weather proof lock-up sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the PROJECT MANAGER. Nominated Sub-Contractors are to be made liable for the cost of any storage accommodation provided especially for their use.</p>	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	<p>SAMPLES</p> <p>The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be called for by the PROJECT MANAGER for his approval until such samples are approved by the PROJECT MANAGER and the PROJECT MANAGER may reject any materials or workmanship not in his opinion to be up to approved samples. The PROJECT MANAGER shall arrange for the testing of such materials as he may at his discretion deem desirable, but the testing shall be made at the expense of the Contractor and not at the expense of the PROJECT MANAGER. The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of Public Works.</p> <p>The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the PROJECT MANAGER. The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub- contractors' work.</p> <p>GOVERNMENT ACTS REGARDING WORK</p> <p>Allow for complying with all Government Acts, Orders and Regulations in connection with the employment of Labour and other matters related to the execution of the works. In particular the Contractor's attention is drawn to the provisions of the Factory Act 1950 and his tender must include for all costs arising or resulting from compliance with any Act, Order or Regulation relating to Insurances, pensions and holidays for workpeople or so the safety, health and welfare of the workpeople. The Contractor must make himself fully acquainted with current Acts and Regulations including Police Regulations regarding the movement, housing, security and control of labour, labour camps , passes for transport, etc. It is most important that the Contractor, before tendering, shall obtain from the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the information regarding all such regulations and/or restrictions which may affect the organization of the works, supply and control of labour, etc., and allow accordingly in his tender.</p> <p>No claim in respect of want of knowledge in this connection will be entertained.</p>	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	<p>PUBLIC AND PRIVATE ROADS. The contractor shall maintain as required throughout the execution of the works and make good any damage to public or private roads arising from or consequent upon the execution of the works to the satisfaction of the local and other competent authority and the Project Manager.</p> <p>EXISTING PROPERTY.</p>	
B	<p>The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the Project Manager.</p>	
C	<p>OCUPATIONAL HEALTH AND SAFETY MEASURES The Project Manager expects the contractor to adhere to strict safety measures. In this regard the contractor should ensure that all his workers, the consultants and his sub-contractors workmen are wearing Personal Protective Equipment (PPE) before commencement of any work where applicable including overalls with the company name clearly printed on the back each with clearly marked Identification Numbers stitched or imprinted on.</p> <p>The Contractor shall allow for providing all watching, lighting, barriers, signs, covering open trenches and protection of the works, including Sub-Contract works, as may be necessary for the safety of the works and for the protection of the public and his own and Sub- Contractors' employees.</p> <p>He shall also ensure provision of first aid staff, access to ambulance services at all worksites and arrangement to access local hospital/dispensary with qualified medical staff.</p> <p>The Project Manager expects full compliance to this regulation and no excuses will be entertained for non-compliance.</p>	
D	<p>OCUPATIONAL HEALTH AND SAFETY PERSONEL The contractor shall allow for Occupational Health and Safety personnel as directed and afford every reasonable facility for the performance of their duties.</p>	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	<p>ACCESS TO SITE AND TEMPORARY ROADS. Means of access to the Site shall be agreed with the CLIENT prior to commencement of the work and Contractor must allow for building any necessary temporary access roads for the transport of the materials, plant and workmen as may be required for the complete execution of the works including the provision of temporary culverts, crossings, bridges, or any other means of gaining access to the Site. Upon completion of the works, the Contractor shall remove such temporary access roads; temporary culverts, bridges, etc., and make good and reinstate all works and surfaces disturbed to the satisfaction of the PROJECT MANAGER</p>	
B	<p>AREA TO BE OCCUPIED BY THE CONTRACTOR The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the PROJECT MANAGER</p>	
B	<p>OFFICE FOR THE PROJECT MANAGER The contractor shall , if so instructed, supply, maintain, service, clean and light a fully furnished, suitable office, having an approximate floor area of not less than 50 sqm for exclusive use of the project. The office shall have a sample room, a toilet and bathroom, kitchen of suitable dimensions with clean running water and electricity connected to the approval of the Project Manager. The Contractor shall provide, erect and maintain a lock-up type water or bucket closet for the sole use of the PROJECT MANAGER including making temporary connections to the drain where applicable to the satisfaction of Government and Medical Officer of Health and shall provide services of cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from commencement to the completion of the works and dismantle and make good disturbed surfaces. The office and closet shall be completed before the Contractor is permitted to commence the works. The Contractor shall make available on the Site as and when required by the "PROJECT MANAGER" a modern and accurate level together with levelling staff, ranging rods and 50 metre metallic or linen tape. On completion of the contract, the contents of the office specified above shall revert to the Client. The contractor shall be responsible throughout the contract period for provision of insurance cover, maintenance of the office equipment and furniture, providing all necessary staff and providing security and garbage disposal facilities</p>	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	<p>LIGHTING AND POWER</p> <p>The contractor shall provide at his own risk and cost all temporary 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> <p>WATER FOR THE WORKS</p> <p>The Contractor shall provide at his own risk and cost all necessary water required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters as required at his own cost and clear away when no longer required and make good on completion to the entire satisfaction of the PROJECT MANAGER . The Contractor shall pay all charges in connection herewith. No guarantee is given or implied that sufficient water will be available from mains and the Contractor must make his own arrangements for augmenting this supply at his own cost. The contractor is to provide clean drinking water at the construction site for his workers at all times. All water shall be fresh, clean and pure, free from earthly vegetable or organic matter, acid or alkaline substance in solution or suspension.</p>	
B	<p>SANITATION OF THE WORKS</p> <p>The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and/or Local Authorities, Labour Department and the PROJECT MANAGER</p> <p>He may however be allowed use of the existing sanitation facilities but shall be responsible for the proper hygienic maintenance and any damage whatsoever. No guarantees are however given regarding the adequacy of the existing services. The Contractor will be required to pay all conservancy charges and shall ensure clean daily maintenance and disinfecting of the latrines, and not less than once per week, the whole area shall be sprayed with disinfectant and insecticides and any temporary drains shall be removed and all works and surfaces disturbed made good and then the whole area disinfected and left clean and free from pollution to the satisfaction of the Architect and local authorities.</p>	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	<p data-bbox="291 209 871 246">SUPERVISION AND WORKING HOURS</p> <p data-bbox="291 289 1290 483">The works shall be executed under the direction and to the entire satisfaction in all respects of the PROJECT MANAGER who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and sub-Contractors or other places where work is being prepared for the contract.</p> <p data-bbox="253 563 616 600">B PROVISIONAL SUMS.</p> <p data-bbox="291 642 1290 792">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 Measurement. Such sums are net and no addition shall be made to them for profit.</p> <p data-bbox="253 834 732 872">C PRIME COST (OR P.C.) SUMS.</p> <p data-bbox="291 914 1290 1183">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 Measurement . Persons or firms nominated by the Project Manager to execute work or to provide and fix materials or goods are described herein as Nominated Sub- Contractors. Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers.</p> <p data-bbox="291 1263 585 1300">PROGRESS CHART.</p> <p data-bbox="253 1298 282 1335">D</p> <p data-bbox="291 1343 1290 1572">The Contractor shall provide within two weeks of Possession of Site and in agreement with the PROJECT MANAGER a Progress Chart for the whole of the works including the works of Nominated Sub- Contractors ; one copy to be handed to the PROJECT MANAGER and a further copy to be retained on Site. Progress to be recorded and chart to be amended as necessary as the work proceeds.</p>	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	<p>ADJUSTMENT OF P.C. SUMS.</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 quotations, invoices or bills, properly receipted, as may be necessary to show the actual details of the sums paid by the Contractor. Items of profit upon P.C. Sums shall be adjusted in the final account pro-rata to the amount paid. Items of "attendance" (as previously described) following P.C. Sums shall be adjusted pro-rata to the physical extent of the work executed (not pro rata to the amount paid) and this shall apply even though the Contractor's priced Bill shows a percentage in the rate column in respect of them. Should the Contractor be permitted to tender and his tender be accepted of any work for which a P.C. Sum is included in these Bill of Quantities profit and attendance will be allowed at the same rate as it would be if the work were executed by a Nominated Sub-Contractor.</p>	
B	<p>ADJUSTMENT OF PROVISIONAL SUMS.</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, but should any part of the work be executed by a Nominated Sub-Contractor or the value of such work or articles for the work to 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</p>	
C	<p>Quantities for similar items added. NOMINATED SUB-CONTRACTORS</p> <p>When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts 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>	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
	<p>DIRECT CONTRACTS</p> <p>A Notwithstanding the foregoing conditions, the Government reserves the right to place a "Direct Contract" for any goods or services required in the works which are covered by a P.C. Sum in the Bills of Quantities and to pay for the same direct. In any such instances, profit relative to the P.C. Sum in the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed.</p> <p>ATTENDANCE UPON OTHER TRADESMEN, ETC.</p> <p>B The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.</p> <p>PROVISIONAL WORK</p> <p>C All work described as "Provisional" in these Bills of Quantities is subject to remeasurement in order to ascertain the actual quantity executed for which payment will be made. 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 PROJECT MANAGER. Immediately the work is ready for measuring, the Contractor shall give notice to the PROJECT MANAGER. If the Contractor makes default in these respects he shall, if the PROJECT MANAGER so directs, uncover the work to enable all measurements to be taken and afterwards reinstate at his own expense.</p>	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
	<p>ALTERATIONS TO BILLS, PRICING, ETC.</p> <p>A Any unauthorized 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>BLASTING OPERATIONS</p> <p>B Blasting will only be allowed with the express permission of the PROJECT MANAGER in writing. All blasting operations shall be carried out at the Contractor's sole risk and cost in accordance with any Government regulations in force for the time being, and any special regulations laid down by the PROJECT MANAGER governing the use and storage of explosives.</p> <p>MATERIALS ARISING FROM EXCAVATIONS</p> <p>C Materials of any kind obtained from the excavations shall be the property of the Client. Unless the PROJECT MANAGER directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the PROJECT MANAGER. Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.</p>	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	<p>PROTECTION OF THE WORKS.</p> <p>Provide protection of the whole of the works contained in the Bills of Quantities, including casing , casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the PROJECT MANAGER and remove such protection when no longer required and make good any damage which may nevertheless have been done at completion free of cost to the Client.</p>	
B	<p>WORKS TO BE DELIVERED UP CLEAN</p> <p>Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER</p> <p>GENERAL SPECIFICATION.</p>	
C	<p>For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Roads and Public Works and Housing General Specification dated 1976 or any subsequent revision thereof which is issued as a separate document, and which shall be allowed in all respects unless it conflicts with the General Preliminaries, Trade Preambles or other items in these Bills of Quantities.</p>	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	<p>TRAINING LEVY</p> <p>The Contractor's attention is drawn to legal notice No. 237 of October, 1971, which requires payment by the Contractor of a Training Levy at the rate of 1/4 % of the Contract sum on all contracts of more than Kshs. 50,000.00 in value.</p>	
B	<p>MATERIALS ON SITE</p> <p>All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the PROJECT MANAGER. This includes the materials of the Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.</p> <p>HOARDING</p>	
C	<p>The Contractor shall enclose the site or part of the works under construction with a hoarding 2400 mm high consisting of iron sheets on 100 x 50 mm timber posts firmly secured at 1800 mm centers with two 75 x 50 mm timber rails. The Contractor is in addition required to take all precautions necessary for the safe custody of the works, materials, plant, public and Employer's property on the site.</p> <p>CONTRACTOR'S SUPERINTENDENCE/SITE AGENT</p>	
D	<p>The Contractor shall constantly keep on the works a literate English speaking Agent or Representative, competent and experienced in the kind of work involved who shall give his whole experience in the kind of work involved and shall give his whole time to the superintendence of the works. Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.</p>	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT
	<u>COLLECTION</u> Brought Forward From Page GP/13 Brought Forward From Page GP/14 Brought Forward From Page GP/15 Brought Forward From Page GP/16 Brought Forward From Page GP/17 Brought Forward From Page GP/18 Brought Forward From Page GP/19 Brought Forward From Page GP/20 Brought Forward From Page GP/21 Brought Forward From Page GP/22 Brought Forward From Page GP/23 Brought Forward From Page GP/24 Brought Forward From Page GP/25	
	TOTAL CARRIED TO GRAND SUMMARY	

BILL NO.3
BUILDERS'
WORKS

MAIN BLOCK

Item	Description	Quantity	Unit	Rate	Amount
	<p><u>ELEMENT NO. 1:</u></p> <p><u>SUBSTRUCTURE</u></p> <p><u>S All Provisional</u></p> <p><u>Site Preparation</u></p> <p>A Clear site of grass, bushes, shrubs and small trees not exceeding 300mm girth including grubbing up roots, burn or cart away arisings.</p> <p><u>EXCAVATIONS AND EARTHWORKS:</u></p> <p>B Mass excavation commencing from stripped level depth not exceeding 1.5 metres and cart away as directed by the project manager.</p> <p>C Excavate trench for strip footing not exceeding 1.50 metres deep commencing at reduced levels.</p> <p>D Allow for keeping excavations free from water and mud by pumping, bailing or other approved method.</p> <p>E Allow for maintaining and supporting sides of all excavations and keeping same free from fallen material.</p>	<p>142</p> <p>34</p> <p>11</p>	<p>SM</p> <p>CM</p> <p>CM</p> <p>ITEM</p> <p>ITEM</p>		
	<u>CARRIED TO COLLECTION</u>				

Item	Description	Quantity	Unit	Rate	Amount
	<u>Disposal:</u>				
A	Load and cart away excavated materials and spread on site.	11	CM		
	<u>Filling:</u>				
B	300mm Thick Approved hand packed hardcore: compacted in layers not exceeding 150mm Thick : to the satisfaction of the Structural Engineer.	102	SM		
C	Approved Imported murrum fillings to make up levels : compacted in layers not exceeding 150mm Thick : to the satisfaction of the Structural Engineer.	31	CM		
D	50 mm Thick Quarry dust blinding to surfaces of hardcore filling, levelled and compacted to approval.	102	SM		
	<u>Anti-Termite Treatment:</u>				
E	Insecticide treatment on top of hardcore filling and over foundation walls applied as per manufacturer's instruction with a 10 year guarantee .	102	SM		
	<u>Damp proof mebrane</u>				
F	Single layer of 1000 gauge polythene sheeting laid on blinded hardcore with 150 mm side laps to receive concrete.	102	SM		
	CARRIED TO COLLECTION				

Item	Description	Quantity	Unit	Rate	Amount
	<u>CONCRETE WORKS:</u>				
	<u>Plain concrete class 15 as described in:-</u>				
A	Ditto: Strip footing.	23	SM		
	<u>Vibrated Reinforced Concrete Class 20 in:-</u>				
B	Foundation strip footing	3	CM		
C	75 mm Thick horizontal floor bed	102	SM		
	<u>REINFORCEMENT STEEL (Provisional):</u>				
	<u>Deformed high yield steel ribbed bars reinforcement to KS 573: 2014 for cutting, bending, hoisting and fixing including all necessary tying wires, distance blocks, spacers, templates and stools</u>				
D	8 mm bars.	43	KG		
E	10 mm ditto.	60	KG		
	CARRIED TO COLLECTION				

Item	Description	Quantity	Unit	Rate	Amount
A	<u>B.R.C. Mesh</u> Mesh fabric reinforcement complying with B. S 1483Ref A66 embedded in floor slab (measured net with no allowance for minimum of 225mm. laps) including tying wire and supporting as required.	102	SM		
	<u>FORMWORK</u> <u>Sawn timber formwork to:</u> Vertical sides of strip footing				
B	Vertical sides of Foundation Columns.	15	SM		
C	Edges of floor bed girth 75 - 150 mm high	9	SM		
D	<u>Foundation Walling</u> <u>200mm Thick approved natural stone; local; roughly squared to foundation walling; bedding and jointing in cement sand (1:3) mortar and reinforced with 25mm wide x 20 gauge hoop iron in alternate courses as described in:</u>	41	LM		
E	200 mm Thick.	40	SM		
	CARRIED TO COLLECTION				

Item	Description	Quantity	Unit	Rate	Amount
	<u>PLINTH FINISHES</u> <u>12 mm Thick cement and sand (1:3) wood float render on:</u> A Dressed stone wall and concrete surfaces of plinths. <u>Prepare and apply three coats bituminous paint to rendered plinths</u> B Rendered plinth surfaces.	 13 13	 SM SM		
	CARRIED TO COLLECTION				

Item	Description	Quantity	Unit	Rate	Amount
	<u>COLLECTION</u>				
	Brought forward from page C/29				
	Brought forward from page C/30				
	Brought forward from page C/31				
	Brought forward from page C/32				
	Brought forward from page C/33				
	TOTAL CARRIED TO BUILDERS WORKS SUMMARY				

Item	Description	Quantity	Unit	Rate	Amount
	<u>ELEMENT NO. 2:</u>				
	<u>REINFORCED CONCRETE WORK:</u>				
	<u>CONCRETE WORK:</u>				
	<u>Vibrated reinforced concrete Class 20 as described in:</u>				
A	Ring Beams	3	CM		
	<u>REINFORCEMENT STEEL (Provisional):</u>				
	<u>Deformed high yield steel ribbed bars reinforcement to KS 573: 2014 for cutting, bending, hoisting and fixing including all necessary tying wires, distance blocks, spacers, templates and stools</u>				
B	8 mm diameter bars	115	KG		
C	12 mm ditto	110	KG		
	<u>FORMWORK:</u>				
	<u>Sawn timber formwork to:</u>				
D	Sides and soffits of beams	25	SM		
	<u>Total Amount Carried to Section Summary</u>				

Item	Description	Quantity	Unit	Rate	Amount
	<u>ELEMENT NO.3</u>				
	<u>WALLING</u>				
	<u>EXTERNAL WALLING</u>				
	<u>Approved Natural local stone of the approved colour; squared ; bush hammered ; in 200mm course heights, bedded and jointed in cement sand mortar (1:3), reinforced with 20 gauge x 25mm wide hoop iron reinforcement and column wall ties in every alternate course</u>				
A	150 mm Thick walling.	58	SM		
B	Ditto gable walling.	13	SM		
	<u>Three- ply bituminous felt damp proof course bedded in cement and sand (1:3) mortar (measured nett allow for 300mm laps):-</u>				
C	200mm wide under walls	35	LM		
	Total Amount Carried to Summary				

Item	Description	Quantity	Unit	Rate	Amount
	<p><u>ELEMENT NO.4</u></p> <p><u>ROOFING AND RAINWATER DISPOSAL</u></p> <p><u>All Provisional</u></p> <p><u>Roof Covering</u></p> <p><u>Supply and fix 0.50mm thick 28 Gauge "ZAS" IT5 box-profile and prepainted sheets laid with 94mm minimum side laps and 200mm minimum end laps to steel purlins with and including steel hook bolts with rubber capping, washers and nuts all as per Manufacturer's instructions</u></p> <p>Roof covering at 15 ° from the horizontal including all necessary fixtures</p> <p><u>Accessories, fixing as necessary to roof sheets</u></p>				
A		116	SM		
B	300 mm Girth matching plain sheet ridge capping thrice bent and dressed over covering	12	LM		
	CARRIED TO COLLECTION				

Item	Description	Quantity	Unit	Rate	Amount
	<u>Grade 11 well seasoned cypress</u>				
	<u>The following including scarfed or dovetailed jointing, hoisted 3.5m above the ground floor slab</u>				
A	100 x 50 mm Rafter	39	LM		
B	100 x 50 mm Tie beam	34	LM		
C	75 x 50 mm Struts or ties	30	LM		
	<u>Unframed timber work</u>				
D	100 X25mm Purlins	80	LM		
E	100x50mm Ridge board	21	LM		
F	100 x 50 mm Wall plate fixed with and including 200mm long x 12 mm diameter anchor bolts cast into beam at 1800mm centres, provide for all necessary drilling, threading, nuts and washers	37	LM		
	CARRIED TO COLLECTION				

Item	Description	Quantity	Unit	Rate	Amount
A	<u>Gutter</u> 100 mm gutter	24	LM		
	<u>Carried To Collection</u>				

Item	Description	Quantity	Unit	Rate	Amount
	<u>COLLECTION</u> Brought forward from page C/37 Brought forward from page C/38 Brought forward from page C/39				
	Total Amount Carried to Section Summary				

Item	Description	Quantity	Unit	Rate	Amount
	<u>ELEMENT NO.5</u>				
	<u>WINDOWS:</u>				
	<u>Window Cill</u>				
A	Supply and Fix 275x50mm Thick window cill once rebated and throated laid and jointed in cement and sand (1:3) mortar.	15	LM		
	<u>Supply, assemble and fix the following purpose-made welded mild steel casement windows complete with hinges and building lugs to masonry or concrete and incorporating louvered permanent ventilation panels infilled with approved mosquito gauze wire netting, primed with onecoat or re-oxide primer, comprising standard T-section framing, SHS 50x25X3mm and Intermediate members 25x25x3mm MS T-Section including all necessary couling mulions, transomes, metal gauge permanent vents and afterwards easing and oiling and adjusting opening lights on : -</u>				
	<u>Notes</u>				
	<u>Steel; for glazing with putty, lugs to two jambs, cutting and pinning to concrete or blockwork, fixing to head and sill with screws; plugging</u>				
B	Window overall size 3000 X1200mm High.	2	NO		
C	Ditto: 2900 X1200mm High.	3	NO		
	Carried to collection				

Item	Description	Quantity	Unit	Rate	Amount
	<p><u>Glass and glazing</u></p> <p><u>Supply and fix 4 mm Thick clear sheet glass and glazing with linseed oil based putty to metal as described in:</u></p> <p>A <u>Panes not exceeding 0.09 square meters. Prepare, prime with one coat of rust-inhibiting primer and Spray one undercoat and two finishing coats of gloss oil paint as described on:</u></p> <p>B <u>General metal surfaces(measured over one side)</u></p>	18	SM		
	Carried to Collection				

Item	Description	Quantity	Unit	Rate	Amount
	<u>COLLECTION</u>				
	Brought forward from page C/41				
	Brought forward from page C/42				
	Total Amount Carried to Section Summary				

Item	Description	Quantity	Unit	Rate	Amount
	<u>ELEMENT NO.6</u>				
	<u>DOORS</u>				
	<u>Steel Doors</u>				
	<u>Supply, Assemble and fix Mild steel pannelled doors; 100 x 50 x 3mm Thick frame plugged to concrete or blockwork with 100mm long fishtailed 25 x 25 x 2mm Thick angle section, 50 x 50 x 3mm Thick hollow section stiles, top, bottom and middle rails at 600mm centres vertical and 1016mm centers horizontal, angles cut, mitred and welded; grilled upper panel infilled with 50 x 50 x 4mm Thick mild steel square hollow sections; lower panel infilled with 16 gauge mild steel plate complete with 'multi - lock ' 4 way lock model 285, high security multi lock cylinder protector with stainless steel door handles as 'Union' or equal and approved, one coat manufacturer's primer; all welding ground to smooth finish, all to the satisfaction of the Project Manager</u>				
A	Double door overall size 1000 X 2100mm High.	1	NO		
	<u>Glazing to fanlights</u>				
	<u>4mm Thick clear sheet glass and glazing to and including timber beads in panes in;-</u>				
B	Panes not exceeding 0.5m square metre	2	SM		
	<u>Touch up primer, prepare and apply one undercoat and two finishing coats gloss oil paint on as described</u>				
C	General surfaces of glazed metal doors internally (measured on both side over glass)	3	SM		
	TOTAL CARRIED TO SECTION SUMMARY				

Item	Description	Quantity	Unit	Rate	Amount
A	<u>ELEMENT NO.7</u> <u>FINISHES:</u> <u>INTERNAL</u> <u>FINISHES: FLOOR</u> <u>FINISHES</u> <u>Cement and sand (1:3) as described in:</u> 40 mm Thick steel trowel smooth with red oxide (measured seperately)	97	SM		
B	<u>Chalk board</u> 3200 x 1500mm wide,25mm thick blockboard plugged to concrete or blockwork complete with 50 x 25mm thick chamfered frame all round : 3 coats of black bituminous paint	1	NO		
	CARRIED TO COLLECTION				

Item	Description	Quantity	Unit	Rate	Amount
A	<p><u>12 mm (minimum) two-coat plaster; 9 mm first coat of cement and sand (1:6), 3 mm second coat of cement and lime putty (1:10); steel trowelled smooth to:</u></p> <p>Walls</p> <p><u>Painting & Decoration</u></p> <p><u>Skimming</u></p>	69	SM		
B	<p>Carefully prepare the plastered surface by sanding and skimming with gysum powder to achieve the smooth surface.</p> <p><u>Apply three coats of premium quality silk vinyl paint to Plastered:-</u></p>	69	SM		
C	Walls	69	SM		
CARRIED TO COLLECTION					

Item	Description	Quantity	Unit	Rate	Amount
	<u>EXTERNAL WALL FINISHES</u>				
	<u>Render; 18mm Thick, 1 No. coatwork of cement and sand (1:3); wood floated to concrete or stone work base generally to: -</u>				
A	Extra over walling for key pointing externally; patterns to Architect's approval 12mm (minimum) two coat plaster ;9 mm first coat of cement and sand (1;6), 3 mm second coat of cement and lime putty (1;10); steel trowelled smooth to	60	SM		
B	Walls, beams columns <u>Painting and Decorating</u> <u>Prepare and apply exterior quality "marmoran" wall coating; "permacrete" with 2mm Thick marmoran top coat: colours and patterns as specified by the Architect : to manufacturers specifications and Architects approval : on rendering (m.s.); to</u>	20	SM		
C	Rendered stone wall and concrete surfaces Circular hollow sections painted and fixed with <u>concrete</u>	20	SM		
D	50mm dia x 1.5mm thick to pillars	4	NO		
	CARRIED TO COLLECTION				

Item	Description	Quantity	Unit	Rate	Amount
	<u>COLLECTION</u>				
	Brought forward from page C/45				
	Brought forward from page C/46				
	Brought forward from page C/47				
	TOTAL CARRIED TO SECTION SUMMARY				

Item	Description	Quantity	Unit	Rate	Amount
	<u>SECTION</u>				
	<u>SUMMARY: Element</u>	<u>Page No</u>			
1	<u>No:</u>	C/34	Shs		
2	SUBSTRUCTURES (ALL PROVISIONAL)	C/35	Shs		
3	REINFORCED CONCRETE WORKS	C/36	Shs		
4	WALLING	C/40	Shs		
5	ROOFING AND RAINWATER DISPOSAL	C/43	Shs		
6	WINDOWS	C/44	Shs		
7	DOORS	C/48	Shs		
	FINISHE				
	TOTAL AMOUNT CARRIED TO BUILDERS		Shs		

BILL NO.8
PROVISIONAL SUMS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<p><u>PROVISIONAL SUMS</u></p> <p><u>The following provisional sums to be spent/ deducted in whole or in part at the discretion of the Architect.</u></p> <p><u>Electrical works installation</u></p> <p>Allow a provisional Sum of Only for Electrical works .</p>		ITEM		
	TOTAL CARRIED TO GRAND SUMMARY SUMMARY				

GRAND SUMMARY

PROPOSED CONSTRUCTION OF CBC CLASSROOM

ITEM	DESCRIPTION	PAGE NO.	FOR TENDERER USE	FOR OFFICIAL USE ONLY
			KSHS.	KSHS.
1	<u>GRAND SUMMARY</u>	PP/11		
	PARTICULAR PRELIMINARIES			
2	GENERAL PRELIMINARIES	GP/26		
3	BUILDERS WORK	C/49		
4	PROVISIONAL SUMS	PS/51		
	ADD 5% CONTINGENCY ADD 16% VAT			
GRAND TOTAL CARRIED TO FORM OF TENDER (VAT INCLUSIVE)				

AMOUNT IN WORDS :

.....CENTS ...

TENDERER'S NAME

ADDRESS

DATE

TENDERER'S SIGNATURE

WITNESS'S NAME ADDRESS

..... DATE

.....

WITNESS SIGNATURE